

JVC

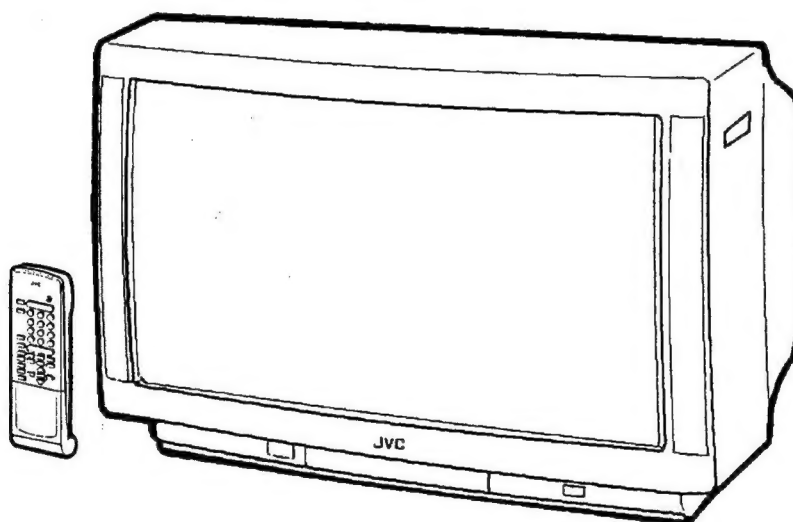
SERVICE MANUAL

COLOUR TELEVISION

AV-28WX1EP AV-32WX1EP

BASIC CHASSIS

JD



[AV-28WX1EP]

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OPERATING INSTRUCTIONS

JVC

COLOUR TELEVISION

AV-28WX1EP AV-32WX1EP

INSTRUCTIONS

Thank you for purchasing this JVC colour television.
To ensure your complete understanding, please read this manual thoroughly before operation.

WARNING:

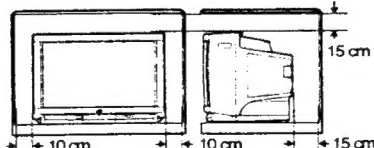
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO ENSURE PERSONAL SAFETY, OBSERVE THE
FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.

When installing this television, distance recommendations must be maintained between the floor and wall, as well as installment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.



4. Do not allow objects or liquid into the cabinet openings.
5. In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

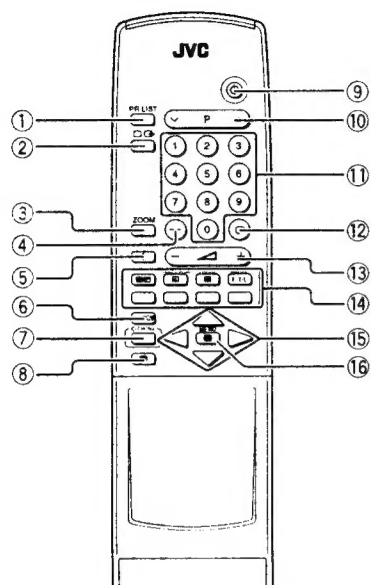
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Locations of remote control buttons

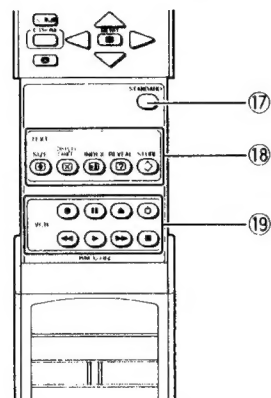
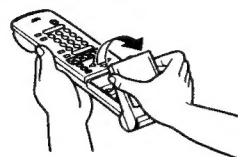
OUTSIDE BUTTONS



| | | |
|---|--|-----------|
| ① | PR. LIST button | p. 18 |
| ② | TV/Video button | p. 20 |
| ③ | ZOOM button | p. 25 |
| ④ | -- button | p. 18 |
| ⑤ | Mute button | p. 21 |
| ⑥ | 3D-HEADPHONE button | p. 27 |
| ⑦ | 3D-PHONIC button | p. 26 |
| ⑧ | Exit button | |
| ⑨ | Standby button | p. 6, 18 |
| ⑩ | PR channel ∇/Δ button | p. 18, 28 |
| ⑪ | Number buttons | p. 18, 28 |
| ⑫ | Display button | p. 23 |
| ⑬ | Volume \rightarrow/\leftarrow button | p. 19 |
| ⑭ | Teletext buttons | p. 28 |
| ⑮ | $\blacktriangle/\blacktriangledown$ button | |
| ⑯ | EX button | |

INSIDE BUTTONS

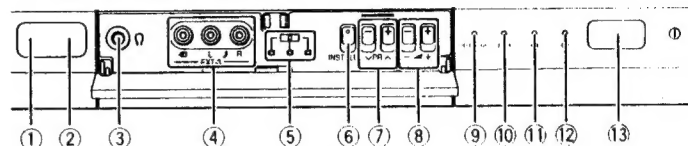
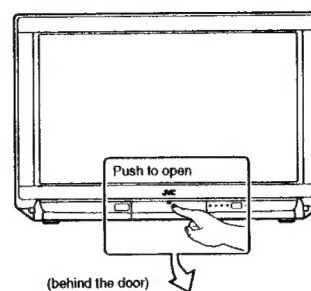
How to open the cover.



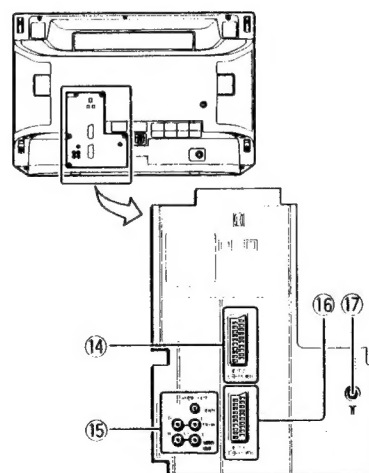
| | | |
|---|---------------------|-------|
| ⑰ | STANDARD button | p. 22 |
| ⑱ | Teletext buttons | p. 28 |
| ⑲ | VCR control buttons | p. 20 |

Locations of TV buttons and parts

FRONT PANEL



REAR PANEL

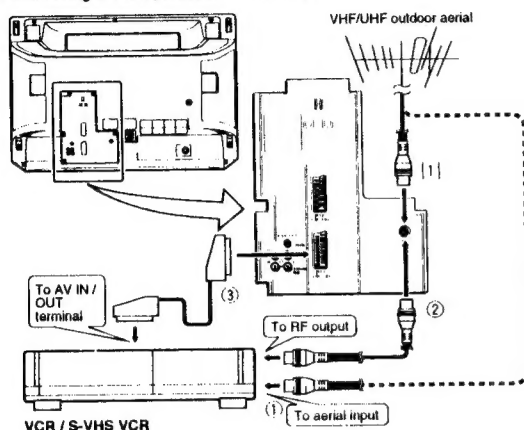


| | | |
|---|--|------------------|
| ① | Remote control sensor | |
| ② | ECO sensor | |
| ③ | Headphone jack (mini jack) | p. 5 |
| ④ | EXT-3 terminals | p. 4, 14, 16, 20 |
| ⑤ | Earth magnetism correction switch (The AV-28WX1EP does not have this switch.) | p. 17 |
| ⑥ | INSTALL button | p. 7, 8, 10 |
| ⑦ | PR Channel ∇/Δ buttons | p. 19 |
| ⑧ | Volume \rightarrow/\leftarrow buttons | p. 19 |
| ⑨ | 3D-PHONIC lamp | p. 26 |
| ⑩ | ECO lamp | p. 24 |
| ⑪ | SLEEP TIMER lamp | p. 23 |
| ⑫ | Power lamp | p. 6, 18 |
| ⑬ | Main power button | p. 6, 18 |
| ⑭ | EXT-2 terminal | p. 4, 14, 16, 20 |
| ⑮ | AUDIO OUT terminals | p. 30 |
| ⑯ | EXT-1 terminal | p. 4, 14, 16, 20 |
| ⑰ | Aerial socket | p. 4 |

PREPARATION

1. Connecting the aerial and VCR

If not connecting a VCR, do 1 only.
If connecting a VCR, proceed 1, 2, 3.



- Notes:**
- For further details, refer to manuals provided with the devices you are connecting.
 - Connecting cables are not supplied.
 - You can view video from a VCR without doing 3. For details, refer to the manual provided with your VCR.

2. Connecting other external devices

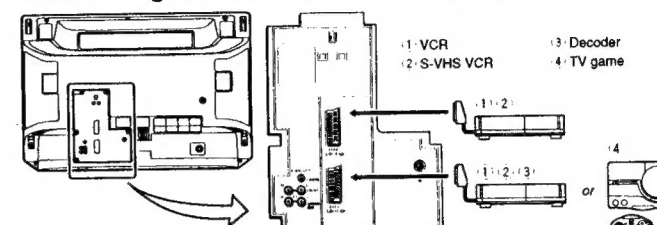
Conditions:

- This TV set has external device connectors, EXT-1 to EXT-3, to which you can connect a VCR. However, there are some differences in functions among them. Consult the following table before making connections.

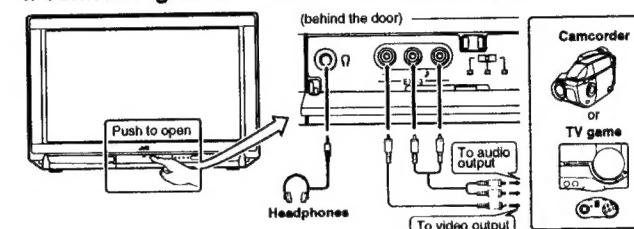
| | EXT-1 | EXT-2 | EXT-3 (front) |
|-------------|--|-------|---|
| VIDEO IN | √*1 | √*1 | √ |
| VIDEO OUT | √*2 | √*3 | — |
| S VIDEO IN | √*1 | √*1 | — |
| S VIDEO OUT | — | — | — |
| RGB IN | √ | — | — |
| AUDIO L IN | √ | √ | √ |
| AUDIO R IN | √ | √ | √ |
| AUDIO L OUT | √*2 | √*3 | — |
| AUDIO R OUT | √*2 | √*3 | — |
| Others | <ul style="list-style-type: none"> Automatic deflection and switching of input mode Automatic deflection and switching of ZOOM mode. | | <ul style="list-style-type: none"> *1 Select VIDEO or S-VIDEO mode from the EXT SETTING menu. For details, see page 14 "Making external device settings." *2 Only the TV broadcast is output. *3 TV broadcasts or inputs from EXT-1 or 3 can be output. For details, see page 16 "Select EXT-2 output." However, when you select EXT-2, no signals are output. |

- Use headphones with a stereo mini jack (dia. 3.5 mm). When using headphones, the speakers will not output sound. Although, the signal from the AUDIO OUT terminals will not cut off when headphones are connected.
- For further details, refer to manuals provided with the devices you are connecting.
- Connecting cables are not supplied.
- When connecting a monaural external device to the EXT-3 terminals, use the L jack.
- For details on how to connect the AUDIO OUT terminals on your TV and external devices such as the audio amplifiers or speakers, see page 30.

If connecting to the terminals on the rear panel

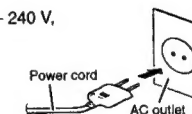


If connecting to the terminals on the front panel



3. Connecting the power cord

Insert the power plug into an AC outlet (AC 220 – 240 V, 50 Hz).

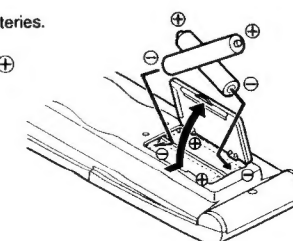


4. Inserting batteries into your remote control

Condition:

- Use two AAA/R03 dry cell batteries.

Insert two batteries, observing the + and - polarities, inserting the - end first.



CAUTION:

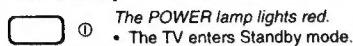
- Follow the cautions printed on the batteries.

Notes:

- Battery life is approx. six months to one year, depending on frequency of use.
- If the remote control operates erratically, replace the batteries.
- We recommend that you use the supplied batteries initially and replace them as soon as operation becomes erratic. The supplied batteries are for testing, not for regular use.

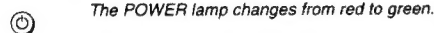
5. Turning the power on

1. Press the Main Power button on the TV to turn the main power on.



If the power lamp has automatically turned from red to green
Skip the turn on operations in step two, the TV has automatically turned on.

2. Press the Standby button.



Note:

- You can also press the PR channel ∇/Δ button, a number button or the TV/Video button to turn the power on.

The first time you turn on your TV

The TV goes into initial settings mode and the JVC logo appears. Follow the steps below. The necessary settings to watch the TV can be completed quickly and easily by following the instructions on page 7 and 8.

- Once you have completed all the initial settings you cannot return to the settings mode again.



1. Press any button on the remote control.

The LANGUAGE menu appears.



2. Perform steps 3 and 4, "Selecting the on-screen language" on page 7.

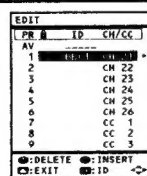
Complete the on screen language settings and the COUNTRY menu will then appear.



3. Perform steps 3 and 4, "Automatic allocation" on page 8.

The PR channels are automatically set and the EDIT menu is displayed.

- If you want to edit PR channels, proceed to step 3 on page 10.

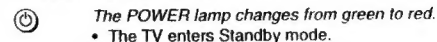


- The procedure is complete.
Press the Exit button repeatedly to exit the menu.

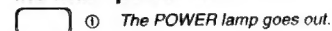


To turn the power off

1. Press the Standby button.



2. Press the Main Power button on the TV to turn the main power off.



Note:

- To save energy, we recommend that you turn the main power off if you do not plan to use your TV for a long time.

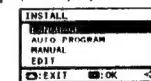
6. Selecting the on-screen language

You can select one of ten languages for the on-screen display. In this manual, on-screen descriptions are given in English. Select English.

1. Press INSTALL button on the TV. (Example)



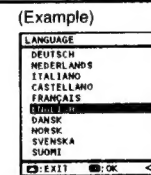
The INSTALL menu appears.



2. Press ∇/Δ button.



The LANGUAGE menu appears.



3. Press ∇/Δ button to select ENGLISH.



4. Press ∇/Δ button.



The LANGUAGE menu disappears.

Note:

- You can also display the INSTALL menu by selecting INSTALL in the MENU and pressing ∇/Δ button.

7. Allocating stations to PR channels

To view a TV programme, you must first allocate stations to PR channels. You can allocate up to 100 stations to PR channels PR 1 thru PR99 plus PR 0 (AV) on this TV. There are two ways to allocate stations to PR channels, automatic and manual. After you have allocated stations to PR channels, you can change the stations again. For details, see page 10.

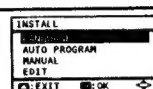
Automatic allocation

Automatically allocates receivable stations to PR channels. When the TV receives a signal describing the station's name, it allocates those stations, station IDs, and registers then as they were preset at the JVC factory.

1. Press INSTALL button on the TV.



The INSTALL menu appears.



2. Press ▼/▲ button to select AUTO PROGRAM, and press [OK] button.



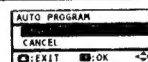
The COUNTRY menu appears.



3. Press ▼/▲/◀/▶ button to select your country and press [OK] button.



The AUTO PROGRAM menu appears.

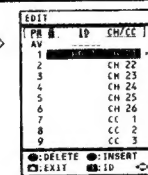


4. Press [OK] button.



The PR channel is automatically set and the EDIT menu is displayed.

- If you want to edit PR channels, proceed to step 3 on page 10.



Note:

- You can also display the INSTALL menu by selecting INSTALL in the MENU and pressing [OK] button.

Note:

- If you make a mistake when selecting your country, or do not want to use the Automatic allocation function, select CANCEL, and then press [OK] button to return to the INSTALL menu.

Notes:

- Automatic allocation does not allocate a station to PR channel PR 0 (AV). Use manual allocation or editing to allocate a station to PR channel PR 0 (AV).
- If a station you want to view is not allocated to a PR channel, perform Manual allocation.

- The procedure is complete. Press the Exit button repeatedly to exit the menu.



Manual allocation

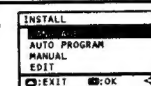
Condition:

- To manually allocate French stations to PR channels, you must set COUNTRY to FRANCE. If COUNTRY is set to any other country than FRANCE. Firstly perform "Automatic Allocation" steps 1 thru 3 and set COUNTRY to FRANCE. Next select CANCEL from AUTO PROGRAM menu then press [OK] button to return to the INSTALL menu. Then follow the operations from step 2 of "Manual allocation."

1. Press INSTALL button on the TV.



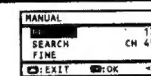
The INSTALL menu appears.



2. Press ▼/▲ button to select MANUAL, and press [OK] button.



The MANUAL menu appears.



3. Press ▼/▲ button to select PR, and press ◀/▶ button to select a PR channel number.



4. Press ▼/▲ button to select SEARCH, and press ◀/▶ button to search for a station.



Scanning stops when the TV receives a broadcast. Press ◀/▶ button to search for another station, and keep searching until you see the station you want.

CH: Terrestrial broadcast stations

CC: Cable TV stations

If reception is poor:

Press ▼/▲ button to select FINE, and ◀/▶ button to fine-tune the PR channel.

If COUNTRY is set to FRANCE:

SYSTEM appears under FINE.

If the signal of a station is incorrectly received, press ▼/▲ button to select SYSTEM and press ◀/▶ button to change the broadcast system. Then repeat step 4.

5. Press [OK] button.



The on-screen display shifts once, and the station is allocated to a PR channel.

- Repeat steps 3 thru 5 to allocate all desired stations to PR channels.

- This completes the procedure. Press the Exit button repeatedly to exit the menu.



Note:

- You can also display the INSTALL menu by selecting INSTALL in the MENU and pressing [OK] button.

Note:

- PR channel number "00" appears on the screen as "AV". We recommend that you allocate this PR channel to a VCR connected to the aerial socket.

Note:

- For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on page 34.

8. Editing PR channels

You can change PR channel settings by doing any of the following:

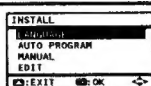
- You can delete an unwanted station from a PR channel.
- You can change the PR channel number of a station.
- You can add a new station to a PR channel, or
- You can add station IDs to PR channels.

To edit PR channels

1. Press INSTALL button on the TV.



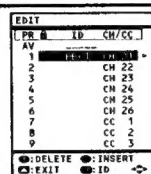
The INSTALL menu appears.



2. Press ▼/▲ button to select EDIT, and then press OK button.



The EDIT menu appears.



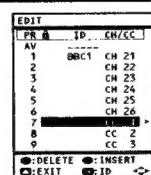
3. Use any of the procedures described in the following pages to change the PR channel settings.

- This completes the procedure.
- Press the Exit button repeatedly to exit the menu.

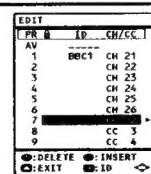


To delete a station from a PR channel

1. Press ▼/▲ button to select the station you want to delete.



2. Press number button 1.

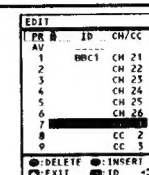


Note:

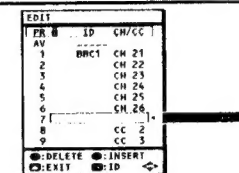
- You can also display the INSTALL menu by selecting INSTALL in the MENU and pressing OK button.

To change the PR channel number of a station

1. Press ▼/▲ button to select the station.



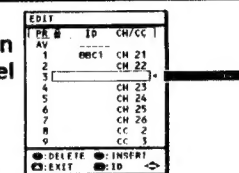
2. Press ► button.



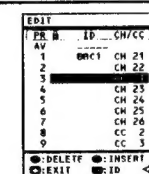
3. Press ▼/▲ button to move the selected station to the desired PR channel number.



- To cancel the operation, press the Exit button.



4. Press ◀ button.



Note:

- Stations allocated to PR channels following the deleted PR channel number are shifted back by one to the preceding PR channel number.

To add a new station to a PR channel

- Press ∇/Δ button to select the row containing the PR channel number to which you want to add a station.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | --- | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

- Press \ominus button repeatedly to display the enter number indicator.



CH: to add terrestrial broadcast stations
CC: to add cable TV stations

If COUNTRY is set to FRANCE, select one of the following four items:

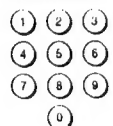
- CH1: to add a system L terrestrial broadcast channel
- CH2: to add a system B/G or I terrestrial broadcast channel
- CC1: to add a system L cable TV channel
- CC2: to add a system B/G or I cable TV channel

| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | --- | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

Note:

- For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on page 34.

- Press the number buttons to enter the channel number.



- To enter a one-digit channel number, enter the corresponding number and press OK button.
- To cancel the operation, press the Exit button.

- Press OK button.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | --- | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

Note:

- When you add a station, the station preset to PR99 is deleted.

To add a station ID to a station

Generally the ID of the stations you are using, are already stored in the TV ID LIST and can be easily registered, however you can also manually register the ID number of the stations you like, respectively.

- Press ∇/Δ button to select the station.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | --- | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

- Press OK button.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | --- | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

- Press ∇/Δ button to select the first letter of the desired station's ID.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | I | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

- Press OK button.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | IM | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

- Press ∇/Δ button to select the station ID.



- To cancel the operation, press the Exit button repeatedly.

- Press OK button.



| PR | ID | CH/CC |
|----|------|-------|
| 1 | --- | CH 21 |
| 2 | DBCT | CH 22 |
| 3 | --- | CH 23 |
| 4 | --- | CH 24 |
| 5 | --- | CH 25 |
| 6 | --- | CH 26 |
| 7 | IM | CC 1 |
| 8 | --- | CC 2 |
| 9 | --- | CC 3 |

Programming a station's ID manually:

Follow the operations below in place of steps 3 thru 5.

- Press the ∇/Δ button repeatedly to select a character.
- Press \rightarrow button to move cursor to input position.
- To complete station ID, follow steps (1) and (2) repeatedly.
 - A station ID can have up to 5 characters.

9. Making external device settings

You can select S-VIDEO or normal input for the EXT-1 and EXT-2 terminals, and you can give an EXT ID to each EXT input terminal.

To change EXT settings

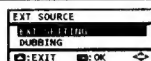
1. Press **OK** button.

The MENU appears.



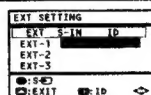
2. Press **▼/▲** button to select EXT SOURCE, then press **OK** button.

The EXT SOURCE menu appears.



3. Press **▼/▲** button to select EXT SETTING, then press **OK** button.

The EXT SETTING menu appears.



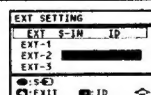
4. Use any of the procedures described in the following pages to change the EXT settings.

- This completes the procedure.
Press the Exit button repeatedly to exit the menu.



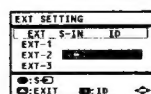
To select S-VIDEO input for a terminal

1. Press **▼/▲** button to select an EXT input terminal.



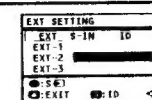
2. Press **⊖** button.

The S-VIDEO input indication appears.
• To select normal input, press **⊕** again.

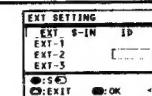


To give an EXT ID to an EXT input terminal

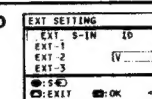
1. Press **▼/▲** button to select an EXT input terminal.



2. Press **OK** button.



3. Repeatedly press **▼/▲** button to select a character.

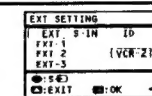


4. Press **▶** button to move the cursor forward.

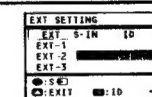
- Pressing **◀** button moves the cursor backward.

5. Repeat steps 3 and 4 to enter the EXT ID.

- To cancel the operation, press the Exit button.



6. Press **OK** button.



Note:

- An EXT ID can have up to 5 characters


Note:

- To erase EXT ID, reset the EXT ID to a blank space

10. Select EXT-2 output

Select output to a VCR or other device connected to the EXT-2 terminal.
Note that you cannot output from the EXT-2 terminal when the TV is turned off.

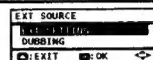
1. Press **[OK]** button.

 The MENU appears.



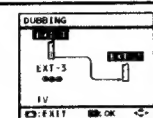
2. Press **▼/▲** button to select EXT SOURCE, then press **[OK]** button.

   The EXT SOURCE menu appears.



3. Press **▼/▲** button to select DUBBING, then press **[OK]** button.

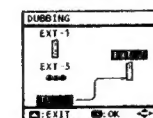
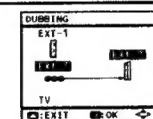
   The DUBBING menu appears.




4. Press **▼/▲** button to select the EXT input which you want to output from EXT-2.



TV:
The sound and picture of the currently selected PR channel is output from EXT-2, so you can record the output on a VCR connected to the EXT-2 terminal while watching a video input from the EXT-1 or EXT-3 terminal.



5. Press **[OK]** button.

 The menu disappears.

Note:

- RGB signals from TV games and TELETEXT screens cannot be output from EXT-2 terminal.

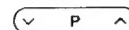
11. Correcting a tilted image (AV-32WX1EP only)

The AV-32WX1EP has a large picture tube in which a picture could be tilted to the left or right because of magnetic pull from the earth. Use the procedure described below to adjust the picture.

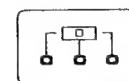
Note:

- The AV-28WX1EP does not have the tilted image correction function.


1. Press the PR channel **V/Λ** button to select a PR channel with a TV programme.




2. Set the Earth magnetism correction switch to the position that corrects the tilted image.



The Earth magnetism correction switch

If the left side is lower, slide the switch towards the  mark.



If the right side is lower, slide the switch towards the  mark.



BASIC OPERATION

Viewing a television programme

1. Press the Standby button.



The POWER lamp changes from red to green.

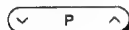
Notes:

- If your TV does not turn on, press the Main power button on the TV and then press Standby button again.
- You can also press the PR channel V/A button, a number button or the TV/Video button to turn the power on.

2. Select a PR channel.

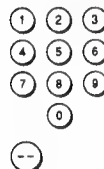
Selection

- Press the PR channel V/A button.



Direct channel selection

- Enter the channel number.



To select a one-digit channel number:

- Press the corresponding number button.
Example: To select channel 6, press "6".

To select a two-digit channel number:

- Press "-" button to display the "--" mark.
- Press the corresponding number buttons.
Example: To select channel 12, press "-" button to display the "--" mark, then press "1" and "2".

Notes:

- If the picture is not clear or no colour appears, change the colour system manually (see page 21 for details).
- Enter "0" when selecting an AV channel (PR 0 channel).

To use the PR LIST to select a PR channel

- Press PR LIST button.



The PR LIST appears.

- To exit the PR LIST, press PR LIST button once again.

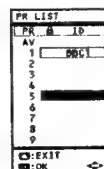


- Press V/A button to select a PR channel.



- Press ► button to view the next page of the PR LIST.
Press ◀ button to view the previous page of the PR LIST.

- Press OK button.



Note:

- The A mark will appear on the PR channel when the CHILD LOCK setting is on (see page 24).

3. Press the Volume +/- button.



The level indicator appears and the volume changes.



4. Press the Standby button to turn the TV off.



The POWER lamp changes from green to red.
The TV enters Standby mode.

Note:

- To save energy, we recommend that you turn the main power off if you do not plan to use your TV for a long time.

To select a channel without using the remote control

You can also use the buttons on the front panel of the TV.

1. Press the PR channel V/A button to turn your TV on.



The POWER lamp changes from red to green.

2. Press the PR channel V/A button to select the PR channel.



3. Press the Volume +/- button to adjust the sound.



4. To turn off your TV, press the Main Power button.



The POWER lamp goes off.

Note:

- If you press the Main Power button again, your TV automatically turns on, and Step 1 is no longer required.

VOLTAGE OF AV SEL. & MSP PWB CIRCUIT DIAGRAM

IC401

| | [M] | | [V] |
|----|-----|----|-----|
| 1 | 4.8 | 11 | 4.6 |
| 2 | 5.0 | 12 | 0.8 |
| 3 | 4.8 | 13 | 5.1 |
| 4 | 5.0 | 14 | 5.1 |
| 5 | 4.8 | 15 | 4.3 |
| 6 | 4.8 | 16 | 5.1 |
| 7 | 0 | 17 | 5.4 |
| 8 | 4.8 | 18 | 5.1 |
| 9 | 9.6 | 19 | 0 |
| 10 | 4.2 | 20 | 4.8 |

IC601

| | [M] | | [V] | | [M] | | [V] |
|----|-----|----|-----|----|-----|----|-----|
| 1 | 0.2 | 17 | 1.6 | 33 | 3.7 | 49 | 3.7 |
| 2 | 0 | 18 | 4.2 | 34 | 3.7 | 50 | 0 |
| 3 | 0 | 19 | 0 | 35 | 0 | 51 | 3.7 |
| 4 | 0 | 20 | 1.9 | 36 | 3.7 | 52 | 3.7 |
| 5 | 0 | 21 | 4.7 | 37 | 3.8 | 53 | 3.7 |
| 6 | 0 | 22 | 1.9 | 38 | 7.0 | 54 | 2.6 |
| 7 | 4.2 | 23 | 1.9 | 39 | 8.0 | 55 | 3.7 |
| 8 | 0 | 24 | 5.0 | 40 | 6.2 | 56 | 0 |
| 9 | 3.3 | 25 | 0.1 | 41 | 0 | 57 | 5.0 |
| 10 | 2.7 | 26 | 0.1 | 42 | 3.7 | 58 | 1.5 |
| 11 | 1.7 | 27 | 0 | 43 | 3.7 | 59 | 1.5 |
| 12 | 2.3 | 28 | 1.9 | 44 | 3.7 | 60 | 1.6 |
| 13 | 2.6 | 29 | 1.9 | 45 | 3.7 | 61 | 0 |
| 14 | 2.6 | 30 | 0 | 46 | 3.7 | 62 | 2.5 |
| 15 | 2.7 | 31 | 3.7 | 47 | 3.7 | 63 | 1.7 |
| 16 | 2.5 | 32 | 3.7 | 48 | 0 | 64 | 2.8 |

IC602

| | [V] |
|---|------|
| 1 | 6.1 |
| 2 | 6.1 |
| 3 | 6.1 |
| 4 | 0 |
| 5 | 6.1 |
| 6 | 6.1 |
| 7 | 6.1 |
| 8 | 12.2 |

IC603

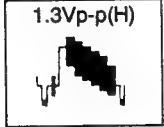
| | [V] | | [V] |
|---|-----|----|------|
| 1 | 6.0 | 9 | 0 |
| 2 | 0 | 10 | 12.2 |
| 3 | 6.0 | 11 | 0 |
| 4 | 0 | 12 | 6.0 |
| 5 | 6.0 | 13 | 6.0 |
| 6 | 0 | 14 | 6.0 |
| 7 | 0 | 15 | 0 |
| 8 | 0 | 16 | 12.3 |

TRANSISTORS [V]

| Q | E | C | B | Q | E | C | B |
|------|-----|------|-----|------|-----|------|-----|
| Q101 | 4.4 | 10.6 | 5.1 | Q401 | 2.2 | 5.0 | 0 |
| Q102 | 3.6 | 12.2 | 4.2 | Q402 | 5.0 | 1.5 | 0 |
| Q103 | 0 | 0.2 | 0 | Q403 | 4.4 | 12.3 | 5.1 |
| Q104 | 0 | 0.2 | 0 | Q503 | 4.7 | 12.2 | 5.4 |
| Q105 | 3.9 | 0 | 3.2 | Q504 | 2.5 | 5.4 | 0.1 |
| Q201 | 3.1 | 9.9 | 3.8 | Q601 | 0 | 12.2 | 0 |
| Q202 | 5.7 | 3.8 | 5.0 | Q602 | 0 | 0 | 0 |
| Q203 | 0 | 0 | 0 | Q603 | 0 | 0.7 | 0 |
| Q204 | 0 | 0 | 0 | | | | |

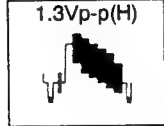
[28"]

IC401 ⑪ (TP-12)



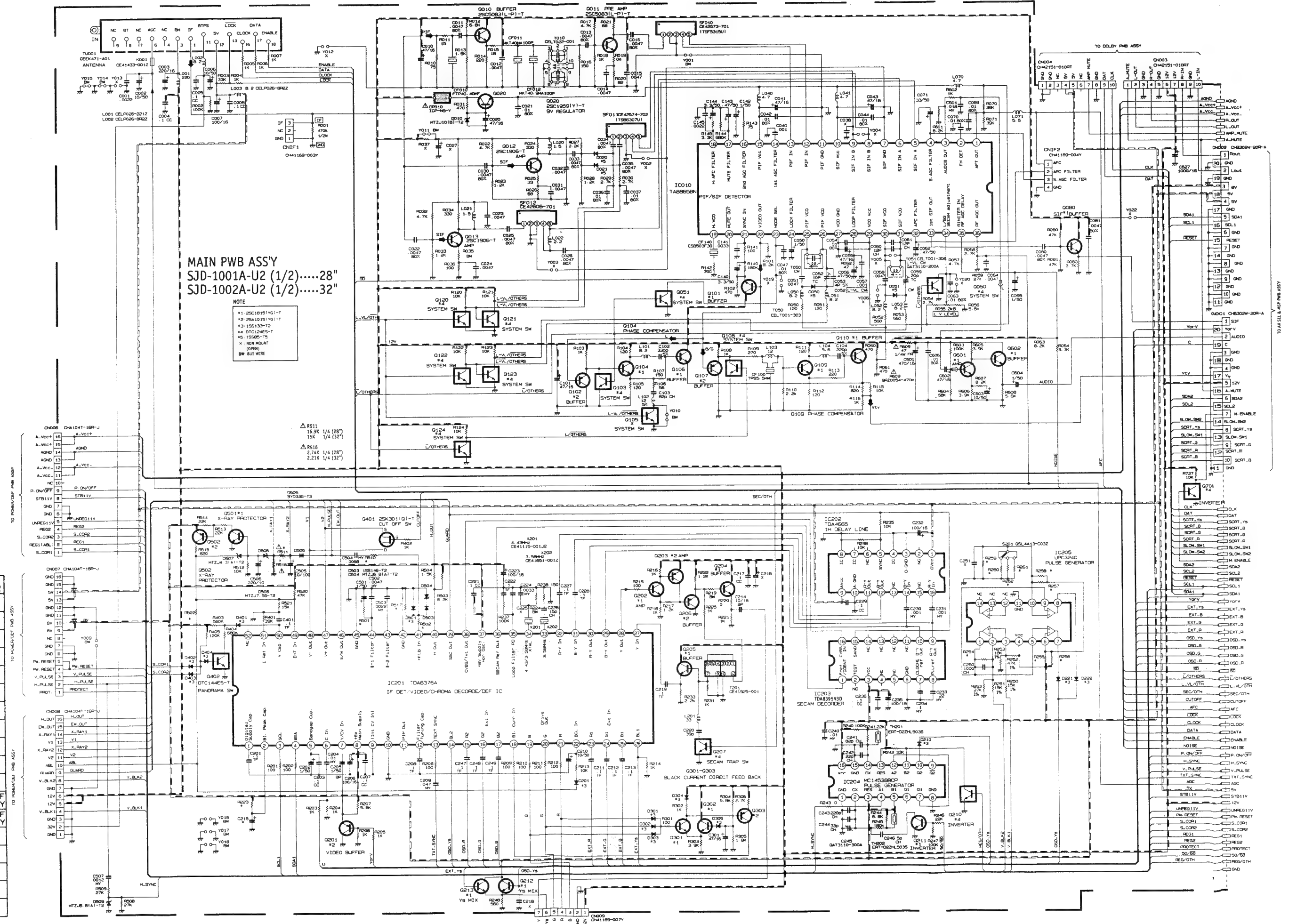
[32"]

IC401 ⑪ (TP-12)



MAIN PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern : MAIN PWB PATTERN page 3-35~3-38.

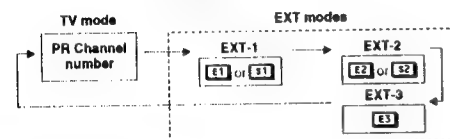


Viewing images from external devices

To view images from an external device (such as a VCR) that is connected to the TV, select its EXT terminal.

1. Press the TV/Video button to select the EXT terminal.

- The current selection appears, and disappears after several seconds.



TV mode:
Shows images from an external device (such as a VCR) or TV aerial connected to the aerial socket of your TV.

EXT modes:

Shows images from an external device (such as a VCR) connected to the displayed terminal.

- To use S-Video mode to view input from an S-VHS VCR, see "To select S-VIDEO input for a terminal" on page 14. When selecting EXT-1 or EXT-2 input terminals as S-VIDEO input, E1 or E2 changes to S1 or S2 in the display.

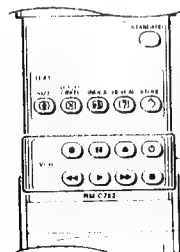
Note:

- If the picture is not clear or no colour appears, change the colour system manually (see page 21).

Controlling your JVC VCR with the remote control

Each VCH button on the remote control corresponds to a button on a JVC VCR.

(Inside buttons)



VCR buttons

Notes:

- For details, refer to the manual of your JVC VCR.
- Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.

SOUND AND PICTURE

COLOUR SYSTEM

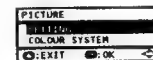
The colour system is automatically selected, but if the picture is not clear or no colour appears, select the colour system manually.

1. Press **OK** button.

The MENU appears.

2. Press **▼/▲** button to select PICTURE, then press **OK** button.

The PICTURE menu appears.



3. Press **▼/▲** button to select COLOUR SYSTEM, then press **OK** button.

The COLOUR SYSTEM appears.



4. Press **▼/▲** button to select the appropriate colour system.

AUTO:

Automatic colour system selection.

5. Press **OK** button.

This completes the setting.

Notes:

- If not in PR 0 channel (AV) TV mode, AUTO cannot be selected.
- In TV mode NTSC3.58 and NTSC4.43 cannot be selected.
- AUTO may not function properly depending on signal quality. If the picture is abnormal in AUTO mode, select another colour system manually.

MULTI SOUND

You can select the multi sound mode for stereo broadcast programmes and bilingual programmes.

Note:

- The MULTI SOUND function has no effect on programmes other than A2 or NICAM (B/G,L) broadcast programmes.

1. Press **OK** button.

The MENU appears.

2. Press **▼/▲** button to select SOUND, then press **OK** button.

The SOUND menu appears.



3. Press **▼/▲** button to select STEREO/II, then press **OK** button.

The STEREO/II menu appears.



Notes:

- The multisound function does not work in EXT modes. The STEREO/II menu does not appear.
- When watching broadcast programs other than A2 or NICAM (B/G,L) the multisound function does not work and the "MONO" display appears.
- The multisound mode display is different from the broadcast program.

4. Press **▼/▲** button to select a multi sound mode.

- : Stereo sound
- I : Bilingual I (Sub I)
- II : Bilingual II (Sub II)
- : Normal sound

5. Press **OK** button.

This completes the setting.

Note:

- When you display the current PR channel number, the current multi sound mode appears for approximately 3 seconds.

MUTE

You can mute the volume to 0 instantly. This is convenient when answering the phone or when receiving visitors.

1. Press the Mute button.

The sound is muted.



To restore the sound:
Press the Mute button again.

Note:

- You can also restore the sound from the speakers by pressing the Volume + button.

PICTURE/SOUND MODE

You can choose from among three picture/sound modes.

1. Press **OK** button.

The MENU appears.

2. Press **▼/▲** button to select FEATURES, then press **OK** button.

The FEATURES menu appears.



3. Press **▼/▲** button to select CINEMA/GAME, then press **OK** button.

The CINEMA/GAME menu appears.



4. Press **▼/▲** button to select the desired mode.

CINEMA:

Use this setting when viewing film programmes.

GAME:

Use this setting when playing TV games.

USER:

Use to make your own personal setting.

5. Press **OK** button.

This completes the setting.

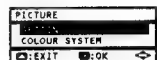
SOUND AND PICTURE

PICTURE/SOUND ADJUSTMENT

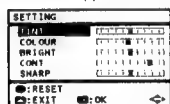
You can adjust the picture and sound as you like. When setting PICTURE/SOUND mode by USER, your selected picture adjustments and sound settings are programmed in USER mode.

To adjust the picture

1. Press **OK** button.
The MENU appears.
2. Press **▼/▲** button to select PICTURE, then press **OK** button.
The PICTURE menu appears.



3. Press **▼/▲** button to select SETTING.
The SETTING menu appears.



4. Press **▼/▲** button to select an item, and press **◀/▶** button to adjust it.

- To return to the default settings, press **○** button. When setting PICTURE/SOUND mode by USER, the default setting is changed into two types of default setting, STANDARD1 and STANDARD2, and these two type of default setting alternate by pressing **○** button repeatedly. Picture white colour base changes as well as default settings.

| ◀ | Item | ▶ |
|---------|-----------------------------|----------|
| Reddish | TINT (picture tint) | Greenish |
| Lighter | COLOUR (picture colour) | Deeper |
| Darker | BRIGHT (picture brightness) | Brighter |
| Lower | CONT (picture contrast) | Higher |
| Softer | SHARP (picture sharpness) | Sharper |

Note:

- You can adjust the TINT (picture tint) only when the colour system is NTSC 3.58 or NTSC 4.43.

5. Press **OK** button.
This completes the setting.

To adjust the sound

1. Press **OK** button.
The MENU appears.
2. Press **▼/▲** button to select SOUND, then press **OK** button.
The SOUND menu appears.



3. Press **▼/▲** button to select SETTING, then press **OK** button.
The SETTING menu appears.



Note:

- When enjoying Dolby® Pro Logic Surround sound with 4 or 5 speakers, the Tone adjustment item in the DOLBY PRO LOGIC menu appears. For details, see page 27 "To adjust the tone". If you press **OK** button again, the menu disappears.
- Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

4. Press **▼/▲** button to select an item, and press **◀/▶** button to adjust it.

- To return to the default settings, press **○** button.

| ◀ | Item | ▶ |
|--------|-------------------------------|----------|
| Weaker | BASS (low frequency sound) | Stronger |
| Weaker | TREBLE (high frequency sound) | Stronger |
| Left | BALANCE (audio balance) | Right |

TV SPEAKER L/R OFF:

Use this function if you connect an audio amplifier and front speakers to your TV. If you set this function to OFF, sound is no longer output from the TV's speakers and the headphones connected to your TV. For details, see "To use 2 external speakers" on page 30.

Note:

- If you set TV SPEAKER to OFF, the illustration of the left and right external speakers appears beside the illustration of the TV.

5. Press **OK** button.
This completes the setting.

To quickly and easily adjust the picture and sound

1. Press **▼/▲** button.
1 item is displayed.



2. Press **▼/▲** button repeatedly to select an item, and press **◀/▶** button to adjust it.



STANDARD

With just one touch, you can restore the default picture and sound settings. There are two types of default settings, select the desired setting.

1. Press STANDARD button.

STANDARD The default picture and sound settings are restored.



- After you Press the STANDARD button to alternate between the two default settings then change.

STANDARD1 ↔ STANDARD2

STANDARD 1

A cool white colour base with a boost in the colour and contrast levels. Creating a more vivid picture.

STANDARD 2

A normal white colour base with no boost in the colour or contrast levels.

Note:

- The sound settings for STANDARD1 and STANDARD2 are the same.

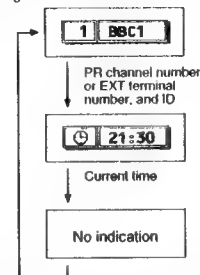
OTHER FEATURES

DISPLAY

You can display the channel number, EXT terminal number and ID, or the current time.

1. Press the Display button repeatedly.

The display changes cyclically in the following order.



About the current time display:

This TV uses teletext data to determine the current time.

- If the TV has not received a station that has teletext data since it was turned on, the time display is blank. To view the current time, select a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you select other stations, the time will still be displayed.
- When watching videos, the wrong time is sometimes displayed.

Note:

- When selecting an EXT terminal with no input signal, the EXT number and ID become fixed on the screen. In this case the display button will not work.

SLEEP TIMER

You can set the TV to automatically turn off after a specified period of time.

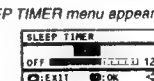
Note:

- The SLEEP TIMER does not turn off the Main power.

1. Press **OK** button.
The MENU appears.
2. Press **▼/▲** button to select FEATURES, then press **OK** button.
The FEATURES menu appears.



3. Press **▼/▲** button to select SLEEP TIMER, then press **OK** button.
The SLEEP TIMER menu appears.



4. Press **◀/▶** button to select a period of time.

The displayed time changes in 10 minute increments.

▶ OFF ▶ 10 ▶ 20 ▶ 30 ▶ 60 ▶ 90 ▶ 120 ▶

OFF:

Turns off the SLEEP TIMER.

5. Press **OK** button.

The selected period of time is displayed for approx. 3 seconds.



- The Sleep timer lamp lights if you set the SLEEP TIMER.

To display the remaining Sleep timer time:

Perform steps 1 to 3 to display the SLEEP TIMER menu, and press **OK** button when you finish checking the time.

To turn off the Sleep timer:

Perform steps 1 to 3 to display the SLEEP TIMER menu, press **◀/▶** button to select "OFF", and then press **OK** button.

- The Sleep timer lamp goes out.

Note:

- One minute before the SLEEP TIMER turns off the TV, "GOOD NIGHT!" appears. Three seconds before the SLEEP TIMER turns off the TV, "JVC" is displayed on the screen.

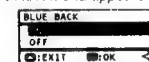
BLUE BACK

When viewing a PR channel with no or poor reception, or if there is no input from an external device, you can mute the sound and change the picture into a blue picture.

1. Press **OK** button.
The MENU appears.
2. Press **▼/▲** button to select FEATURES, then press **OK** button.
The FEATURES menu appears.



3. Press **▼/▲** button to select BLUE BACK, then press **OK** button.
The BLUE BACK menu appears.



4. Press **▼/▲** button to select ON or OFF.

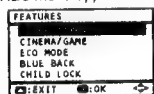
5. Press **OK** button.
This completes the setting.

OTHER FEATURES

ECO MODE

When you set ECO MODE to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room. For example, you can prevent watching a screen that is unnecessarily bright for a dark room. This reduces eye strain and the power consumption of the TV.

1. Press **[OK]** button.
The MENU appears.
2. Press **▼/▲** button to select **FEATURES**, then press **[OK]** button.
The FEATURES menu appears.



3. Press **▼/▲** button to select **ECO MODE**, then press **[OK]** button.
The ECO MODE menu appears.



4. Press **▼/▲** button to select **ON, OFF, or DEMO**.

DEMO:

ECO MODE is on, and your TV displays the brightness of your room, measured in stars ☆ each time the brightness of your room changes. The brightness can be from one to six stars ☆ and the greater the number of stars, the darker your room is.



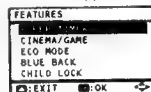
5. Press **[OK]** button.
This completes the setting.
• If you turned on ECO MODE, the ECO lamp lights.

CHILD LOCK

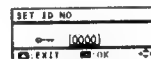
You can lock some PR channels to prevent your children from watching them.

To set the CHILD LOCK

1. Press **[OK]** button.
The MENU appears.
2. Press **▼/▲** button to select **FEATURES**, then press **[OK]** button.
The FEATURES menu appears.

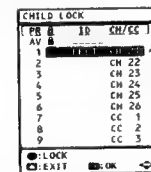


3. Press **▼/▲** button to select **CHILD LOCK**, then press **[OK]** (number 0) button.
The SET ID NO menu appears.

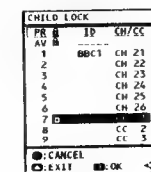


4. Enter the ID number.
• Press **▼/▲** button to select a number.
• Press **◀/▶** button to move the cursor.

5. Press **[OK]** button.
The CHILD LOCK menu appears.



6. Press **▼/▲** button to select a PR channel, then press **[OK]** button.
The selected PR channel is locked.



- To cancel the CHILD LOCK Press **[OK]** button again.
- Repeat step 6 to lock all PR channels which you want to lock.

7. Press **[OK]** button.
This completes the setting.

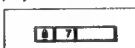
Notes:

- You cannot select a locked PR channel using the PR channel **V/A** buttons.
- Even if you select a locked PR channel, the fact that the channel is locked is displayed, but you cannot view the channel.

To view a locked PR channel

1. Select a locked PR channel.

- Use the numeric buttons or the PR LIST to select the PR channel.
The fact that the channel is locked is displayed.



2. Press the Exit button.

The ID NO. input menu appears.



3. Press the number buttons to enter the ID number.

You are now viewing the locked PR channel.

If you forget the ID number:

Perform steps 1 thru 3 of "To set the CHILDLOCK". After you confirm the ID number, press the Exit button repeatedly to exit the menu.

DEMONSTRATION

The demonstration runs automatically and introduces the menus of this TV's main features.

1. Press **[OK]** button.

The MENU appears.

2. Press **▼/▲** button to select **DEMO**, then press **[OK]** button.

The demonstration begins.

- To stop the demonstration, press any button on the remote control. Press the Exit button to exit the menu.

WIDE SCREEN

ZOOM

Manual selection

Select a ZOOM mode to change the picture format. You can enlarge the picture to fill the wide TV screen (16:9 aspect ratio). In addition, you can stretch a normal picture (4:3 aspect ratio) to fill the wide TV screen.

1. Press **ZOOM** button repeatedly to select a ZOOM mode.

The picture expands.

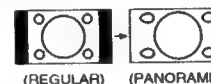
REGULAR mode:

Use to view a normal picture (4:3 aspect ratio) unchanged.



PANORAMIC mode:

Stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural.

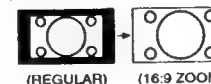


Note:

- In PANORAMIC mode, the top and bottom of the picture are slightly cut off.

16:9 ZOOM mode:

Use to expand a wide picture (16:9 aspect ratio).



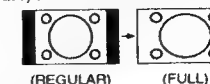
14:9 ZOOM mode:

Use to expand a picture with a 14:9 aspect ratio.



FULL mode:

Uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



Note:

- For pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), select FULL mode to restore their original dimensions.

To move the picture vertically:

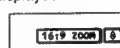
If you cannot see subtitles at the bottom of the screen, or if the top or bottom is cut off, move the picture vertically.

Note:

- You cannot move the picture vertically in REGULAR and FULL mode.

1. Press the **ZOOM** button.

The current ZOOM mode is displayed.



2. Before the display disappears, press **▼/▲** button to move the picture up or down.

△, ▽: Default position

▲, ▼: The picture is moved from default position.

Note:

- If you change the ZOOM mode, the picture returns to its default position.

Automatic selection

The picture format information of the present broadcasting system carries the signal for WSS (Wide Screen Signaling). This TV automatically selects the most suitable ZOOM mode corresponding to the WSS signal.

- When the WSS signal is received the most suitable ZOOM mode is automatically selected from the previous ZOOM modes, (with the exception of PANORAMIC mode), and the two ZOOM modes written below.

16:9 TOP:

Expands a picture that is raised and has a 16:9 aspect ratio, so that it fills the wide TV screen.



14:9 TOP:

Expands a picture that is raised and has a 14:9 aspect ratio, so that it fills the wide TV screen.



Notes:

- In the case of weak WSS signal reception, automatic selective function may not work correctly. In this case select a ZOOM mode manually.
- If you select a ZOOM mode manually automatic selective function will cancel. In this case select another PR channel or turn the TV off then on again in order to make automatic selective function start working again.
- If the EXT-1 terminal's input is from a picture signal with a 16:9 aspect ratio picture format, the ZOOM mode may automatically changes to FULL mode. This is because the TV detects an identification signal which is not a WSS signal.

SURROUND SOUND

DOLBY PRO LOGIC 3D-PHONIC

You can enjoy the ambiance of Dolby Surround encoded programmes.

Note:

- This function works only with Dolby Surround encoded programmes.
- When operating this function, the TV's 3D-PHONIC indicator light up.

1. Press **[OK]** button.

The MENU appears.

2. Press **▼/▲** button to select DIGITAL SURROUND, then press **[OK]** button.

The DIGITAL SURROUND menu appears, showing the currently active function.



Note:

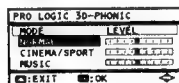
- If headphones are connected to the TV, DIGITAL SURROUND does not appear in the MENU. Disconnect the headphones.

3. Press **▼/▲** button to select PRO LOGIC 3D-PHONIC.

To cancel the function: Select SURROUND OFF, then press **[OK]** button.

4. Press **▶** button.

The PRO LOGIC 3D-PHONIC menu appears.



5. Press **▼/▲** button to select the desired mode.

NORMAL:

For normal programmes

CINEMA/SPORT:

For cinema and sports programmes

MUSIC:

For music programmes

To adjust the effect level: Press **◀/▶** button.

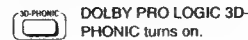
6. Press **[OK]** button.

Note:

- If, while using this function, you connect headphones to your TV, the 3D HEADPHONE function (see next page) activates automatically.

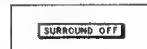
To turn on/off DOLBY PRO LOGIC 3D-PHONIC with one touch

1. Press 3D-PHONIC button.



To cancel the function:

Press 3D-PHONIC button again.



Notes:

- If "A DISCONNECTED" appears, unplug the headphones and do the operation again.
- You cannot change the DOLBY PRO LOGIC 3D-PHONIC mode or the effect level.

DIGITAL SURROUND

You can enjoy any one of the four Digital Surround function.

1. Press **[OK]** button.

The MENU appears.

2. Press **▼/▲** button to select DIGITAL SURROUND, then press **[OK]** button.

The DIGITAL SURROUND menu appears, showing the currently active function.



Note:

- If headphones are connected to the TV, DIGITAL SURROUND does not appear in the MENU. Disconnect the headphones.

3. Press **▼/▲** button to select the desired function.

DANCE CLUB:

For the atmosphere of a dance club

CONCERT HALL:

For the atmosphere of a concert hall

STADIUM:

For the atmosphere of a stadium

HYPER SOUND:

To give monaural sound the spacious feeling of stereo sound

To cancel the function: Select SURROUND OFF.

4. Press **[OK]** button.

Notes:

- Only HYPER SOUND works well with monaural sound programmes
- HYPER SOUND does not work well with stereo sound programmes.
- If, while using this function, you connect headphones to your TV, Headphone Surround (see next page) activates automatically.

HEADPHONE SURROUND

You can enjoy surround sound on your headphones. You can enjoy any one of the four Headphone surround functions.

Condition:

- Before performing this procedure, connect headphones to the TV.

1. Press **[OK]** button.

The MENU appears.

2. Press **▼/▲** button to select HEADPHONE SURROUND, then press **[OK]** button.

The HEADPHONE SURROUND menu appears, showing the currently active function.



Note:

- If headphones are not connected to the TV, HEADPHONE SURROUND does not appear in the MENU. Connect headphones to the TV.

3. Press **▼/▲** button to select the desired function.

3D HEADPHONE:

For a broad, atmospheric sound

DANCE CLUB:

For the atmosphere of a dance club

CONCERT HALL:

For the atmosphere of a concert hall

STADIUM:

For the atmosphere of a stadium

HYPER SOUND:

To give monaural sound the spacious feeling of stereo sound

To cancel the function: Select SURROUND OFF.

4. Press **[OK]** button.

Note:

- HYPER SOUND does not work well with stereo sound programmes.

To turn the 3D-HEADPHONE on/off with one touch

1. Press the 3D-headphone button.



To cancel the function:

Press the 3D-headphone button again.



Note:

- If "A DISCONNECTED" appears, plug in headphones and do the operation again.

DOLBY PRO LOGIC SURROUND

You can also use Dolby Pro Logic Surround sound with 4 or 5 speakers. If you wish to use this system, additional amplifiers and speakers are required. For details, see "To use 4 or 5 speakers" on page 31.

Note:

- This function works only with Dolby Surround encoded programmes

1. Press **[OK]** button.

The MENU appears.

2. Press **▼/▲** button to select DIGITAL SURROUND, then press **[OK]** button.

The DIGITAL SURROUND menu appears, showing the currently active function.



Note:

- If headphones are connected to the TV, DIGITAL SURROUND does not appear in the MENU. Disconnect the headphones

3. Press **▼/▲** button to select DOLBY PRO LOGIC.

To cancel the function: Select SURROUND OFF

4. Press **[OK]** button.

Note:

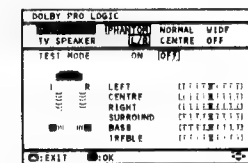
- If, while using this function, you connect headphones to the TV, the 3D HEADPHONE function (see above) activates automatically. However, note that you cannot use Dolby Pro Logic Surround with headphones

To adjust the tone

1. Display the DIGITAL SURROUND menu, the press **▼/▲** button to select DOLBY PRO LOGIC.

2. Press **▶** button.

The DOLBY PRO LOGIC menu appears.



3. Press **▼/▲** button to select the desired item, and press **◀/▶** button to adjust the level.

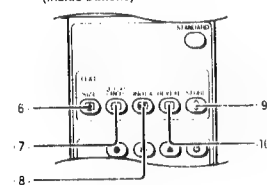
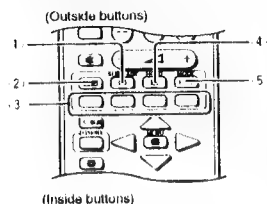
| | Item | |
|-----|--------|------|
| Low | BASS | High |
| Low | TREBLE | High |

4. Press **[OK]** button.

TELETEXT

Note:

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.

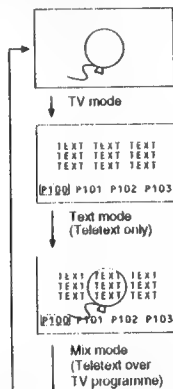


- SUB PAGE button
- TV/text/mix button
- Colour buttons
- HOLD button
- MODE button
- SIZE button
- DISPLAY CANCEL button
- INDEX button
- STORE button
- REVEAL button

BASIC TELETEXT OPERATION

You can view three types of teletext broadcasts on the TV: Fastext, TOP and WST. The TV automatically recognizes the type of teletext broadcast.

- Select a channel with a teletext broadcast.
- Press the TV/text/mix button repeatedly to select TEXT or MIX mode.



- Select a page number.

Browse:

Press the PR channel V/A button.

Direct selection:

Press the number buttons to enter a three-digit page number.

Colour button selection:

Press a colour button to select the corresponding page number on the bottom line of the screen.

Notes:

- Category names of teletext pages may appear instead of page numbers.
- When in MIX mode the ZOOM mode may cut out Teletext information from the top and bottom of the screen. If you want to see all of the Teletext information, press the ZOOM button, and select REGULAR or FULL mode.

- To return to TV mode, press the TV/Video button.

Note:

- You can also return to TV mode by pressing the TV/text/mix button repeatedly.

DISPLAY CANCEL

You can search for a teletext page while watching TV.

- Select a teletext page.

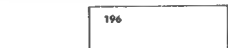
The TV searches for a teletext page.

- Press DISPLAY CANCEL button.

The TV programme appears.

- Press ZOOM button, select REGULAR or FULL mode.

When the TV finds the teletext page, its page number appears in the upper left of the screen.



Note:

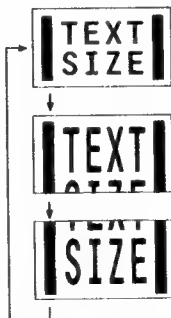
- If selecting something other than REGULAR or FULL mode for ZOOM mode, the page number does not appear on the screen.

- Press the TV/text/mix button when the page number is on the screen.

SIZE

You can double the height of the teletext display.

- Press SIZE button repeatedly.

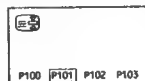


HOLD

You can hold a teletext page on the screen for a desired length of time, even while several other teletext pages are being received.

- Press HOLD button.

is displayed in the upper left of the screen, and the teletext page is held on the screen.



To release hold mode: Press HOLD button again.

Note:

- You can also release hold mode by selecting another page or by pressing INDEX button.

INDEX

Just press INDEX button to return to the index page.

- Press INDEX button.

Fastext/TOP/WST:

Returns to page 100 or a previously specified page.

LIST mode:

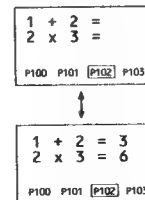
Returns to the page number displayed in the lower left area of the screen.

REVEAL

Some teletext pages include hidden text (such as answers to a quiz).

- Press REVEAL button.

Each time you press REVEAL button, text is hidden or revealed.



LIST MODE

If you store the numbers of teletext pages you view often, you can quickly call up a desired teletext page whenever you like.

Note:

- You can store up to 64 pages in memory. You can store four pages in each channel from 1 to 15 (60 pages), and four pages that are the same for all channels above channel 15 (4 pages).

To store the page numbers

- Press MODE button to engage LIST mode.

Stored page numbers are displayed at the bottom of the screen.

- Press a colour button, then enter the number of the teletext page.

To assign other pages to remaining colour buttons, repeat this operation.

- Press and hold STORE button.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page

- Press MODE button to engage LIST mode.

Stored page numbers are displayed at the bottom of the screen.

To release LIST mode: Press MODE button again.

- Press a colour button to which a page has been assigned.

SUB PAGE

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

- Call up a teletext page with sub-pages.

- Press SUB PAGE button.

- Enter the number of the sub-page.

Example:

To select the 3rd sub-page, press number buttons "0", "0", "0", and "3".

Note:

- You can also select a sub page by pressing the red or green colour button.

CONNECTING AMPLIFIERS AND SPEAKERS

Condition:

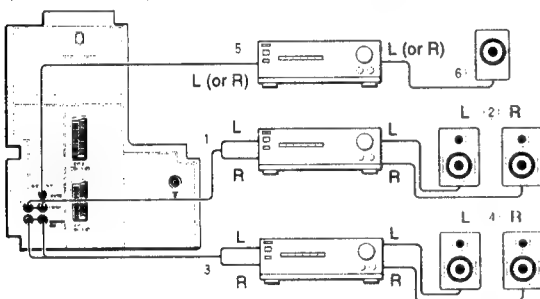
- When connecting audio amplifiers and speakers to your TV:
 - Turn the TV and audio amplifiers OFF before connecting them.
 - Set the audio amplifiers' volume to minimum.
 - Refer to manuals provided with the amplifier and speakers for further details.

Notes:

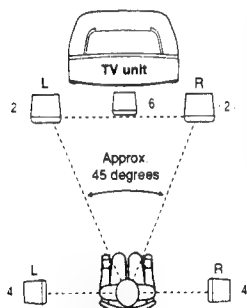
- The AUDIO OUT terminals on your TV are for connecting to an audio system. The output level is controlled by the Volume controls of your TV. The signal from the AUDIO OUT terminals will not cut off when headphones are connected.
- If you connect a Dolby Pro Logic Surround decoder to your TV, use the FRONT L and R jacks. Your TV has Dolby Pro Logic Surround functions, so if you connect an external decoder, turn off all surround function on your TV.

- Stereo amplifier
- Front speakers (magnetic-shielded type, L, R)
- Surround speakers (L, R)
- Stereo amplifier (or monaural amplifier)
- Centre speaker (magnetic-shielded type)

(Terminals on rear)



Positioning speakers



Notes:

- For a good effect, place speakers 1, 4 1.0 m above the seated listener's head.
- For a good effect, place speaker 6 as close as possible to the TV along the same line as or behind, speakers 2.
- Use magnetic-shielded speakers for speakers 2 and 6 to avoid TV interference.

To use 2 external speakers

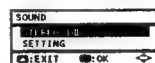
- Connect stereo amplifier ① and front speakers ② to your TV.
- Turn your TV ON, and press the Volume \uparrow/\downarrow button to set the volume to the lowest setting.

- Press OK button.

The MENU appears.

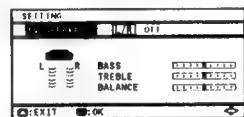
- Press ∇/Δ button to select SOUND, then press OK button.

The SOUND menu appears.



- Press ∇/Δ button to select SETTING, then press OK button.

The SETTING menu appears.



Note:

- If the DOLBY PRO LOGIC menu appears instead of the SETTING menu, press 3D-PHONIC button twice to turn off the Surround function, and then repeat steps 3 to 5.

- Press ∇/Δ button to select TV SPEAKER.

- Press \leftarrow/\rightarrow button to select OFF.

The TV's speakers become silent and the menu disappears after several seconds.

To output sound from the TV speakers:

Set TV SPEAKER to L/R.

Note:

- If TV SPEAKER is set to OFF, sound will no longer be output from the headphones connected to your TV.

- Press OK button.

The menu disappears.

- Turn your audio amplifier ON, and return the volume of your audio amplifier to the normal setting.

Note:

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers.

- Press the Volume \uparrow/\downarrow button to adjust the volume.

- This completes the procedure.

To use 4 or 5 speakers

You can enjoy Dolby Pro Logic Surround sound with 4 or 5 speakers.

- Connect audio amplifiers and speakers to the TV.

Do one of the following:

- Connect stereo amplifier ③ and surround speakers ④. This leaves out the centre speaker.
- Connect stereo amplifiers ①, ③, front speakers ②, and surround speakers ④. This uses the TV's speakers as the centre speakers.
- Connect stereo amplifiers ①, ③, stereo amplifier (or monaural amplifier) ⑤, front speakers ②, surround speakers ④, and centre speaker ⑥. If you use this method, do not output sound from the TV's speakers.

- Turn your TV ON, and press the Volume \uparrow/\downarrow button to set the volume to the lowest setting.

- Press OK button.

The MENU appears.

- Press ∇/Δ button to select DIGITAL SURROUND, then press OK button.

The DIGITAL SURROUND menu appears, showing the currently selected setting.

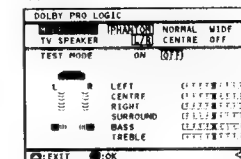


Note:

- If headphones are connected to the TV, DIGITAL SURROUND does not appear in the MENU. Disconnect the headphones.

- Press ∇/Δ button to select DOLBY PRO LOGIC, then press OK button.

The DOLBY PRO LOGIC menu appears.



- Press ∇/Δ button to select an item, and press \leftarrow/\rightarrow button to change its setting.

| Method | MODE | TV SPEAKER |
|--------|---------|------------|
| A | PHANTOM | L/R |
| B | NORMAL | CENTRE |
| C | NORMAL | OFF |
| | WIDE | |

Note:

- Set MODE to WIDE when using a full-range speaker as the centre speaker. Frequencies of 100 Hz or lower are output from the centre speaker to give Dolby Surround an even greater impact.

- Turn your audio amplifier ON, and return the volume of your audio amplifier to the normal setting.

Note:

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers.

- Press ∇/Δ button to select TEST MODE.

- Press \leftarrow/\rightarrow button to set TEST MODE to ON, then press the Volume \uparrow/\downarrow button to adjust the volume of the entire speaker system.

Test signals alternate between the speakers.

- Press \leftarrow/\rightarrow button to adjust the level of each of the speakers so that their volumes are the same at the listening position (the place where the person is sitting in the diagram, see page 30).

LEFT, RIGHT:

Front speaker L, R

CENTRE:

Centre speaker

SURROUND:

Surround speakers

Notes:

- When MODE is set to PHANTOM, the volume of CENTRE (Centre speaker) cannot be adjusted.
- If the volume of both speakers is not the same even after adjusting the volume, adjust the volume of your audio amplifier.

- Press OK button.

The menu disappears

- This completes the procedure.

TROUBLESHOOTING

- If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

IMPORTANT

- Review all instructions in this manual.

■ GENERAL

| Problem | Action |
|------------------------------------|---|
| No power supply. | Insert the plug in an AC socket. Press the Main Power button (see page 6). |
| No picture or sound. | Check aerial connections (see page 4). Press the TV/Video button to select the correct mode (see page 20). Select the correct colour system manually (see page 21). |
| The power shuts off automatically. | Press the Standby button to turn the power on again (see page 6, 18). |
| Inoperable remote control. | Replace the batteries (see page 5). Insert the batteries correctly (see page 5). Use the remote control within about 7 metres of the TV. |

■ PICTURE

| Problem | Action |
|---|---|
| Poor colour. | Adjust COLOUR and BRIGHT (see page 22). Select the correct colour system manually (see page 21). Press STANDARD button (see page 22). |
| The screen mode suddenly changed. | The ZOOM mode's automatic selective function is working (see page 25). |
| The picture is tilted (AV-32WX1EP only). | Use the Earth Magnetism Correction switch to correct the tilt (see page 17). |
| Lines or streaks in picture (interference). | Move the components apart until the interference is eliminated. Reposition the aerial. |
| Spots (crosstalk). | Reposition the aerial. Replace with an aerial with better directionality. |
| Double pictures (ghosts). | Reposition the aerial. Replace with an aerial with better directionality. |
| Snowy pictures (noise). | Check aerial connections. Redirect the aerial. Replace or repair the aerial. |
| The screen turns blue. | The BLUE BACK function is on (see page 23). |

■ SOUND

| Problem | Action |
|---|--|
| No sound from the TV's speakers. | Disconnect the headphones. Set TV SPEAKER to L/R (see page 30). |
| No sound from external speakers. | Turn your audio amplifiers on, and set them to the normal volume (see page 31). |
| No stereo sound. | In the STEREO/II menu, select ∞ (stereo sound) (see page 21). |
| No "SUB-I" or "SUB-II" sound in a multisound broadcast. | In the STEREO/II menu, select I (Bilingual I/ Sub I) or II (Bilingual II/ Sub II) (see page 21). |
| Surround function does not function properly. | Dolby Pro Logic Surround and DOLBY PRO LOGIC 3D-PHONIC work properly only with Dolby Surround encoded programmes. Functions other than HYPER SOUND and the Headphone surround functions work properly only with stereo programmes. HYPER SOUND works properly only with monaural programmes. |

■ TELETEXT

| Problem | Action |
|------------------------------------|---|
| No teletext reception. | Tune to a teletext broadcast channel (see page 28). We recommend that you not videotape teletext, as it may not be recorded correctly. |
| The current time is not displayed. | Tune to a teletext broadcast channel (see page 23). |

The following are normal and are NOT malfunctions:

- When you touch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a bright still image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all CRTs, and as the bright image disappears, such colouration also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the AC socket and turn on the main power again.

Channel table

- The following table shows the relationship between the displayed CH/CC channel number and the actual channel number.
- The "CC1--" channel number displayed on your TV is different from the actual cable TV channel number. Using the broadcast frequency of the cable TV channel, check the chart below to see which "CC1--" number corresponds to which actual cable TV channel number. If you have any questions concerning the broadcast frequencies of cable TV stations, please ask your local cable TV station.

| CH -- | Channel | CH -- | Channel | CC | channel | CC | channel | CH 1-- | Channel |
|-------|----------------|-------|---------|-------|---------|-------|------------|--------|---------|
| CH 2 | E2, ITALY A | CH 51 | E51 | CC 1 | S1 | CC 41 | S41 | CH 102 | F2 |
| CH 3 | E3 | CH 52 | E52 | CC 2 | S2 | CC 75 | X | CH 103 | F3 |
| CH 4 | E4, ITALY B | CH 53 | E53 | CC 3 | S3 | CC 76 | Y | CH 104 | F4 |
| CH 5 | E5, ITALY D | CH 54 | E54 | CC 4 | S4 | CC 77 | Z, ITALY C | CH 105 | F5 |
| CH 6 | E6, ITALY E | CH 55 | E55 | CC 5 | S5 | CC 78 | Z+1 | CH 106 | F6 |
| CH 7 | E7, ITALY F | CH 56 | E56 | CC 6 | S6 | CC 79 | Z+2 | CH 107 | F7 |
| CH 8 | E8, ITALY G | CH 57 | E57 | CC 7 | S7 | | | CH 108 | F8 |
| CH 9 | E9 | CH 58 | E58 | CC 8 | S8 | | | CH 109 | F9 |
| CH 10 | E10, ITALY H | CH 59 | E59 | CC 9 | S9 | | | CH 110 | F10 |
| CH 11 | E11, ITALY H+1 | CH 60 | E60 | CC 10 | S10 | | | CH 121 | F21 |
| CH 12 | E12, ITALY H+2 | CH 61 | E61 | CC 11 | S11 | | | CH 122 | F22 |
| CH 21 | E21 | CH 62 | E62 | CC 12 | S12 | | | CH 123 | F23 |
| CH 22 | E22 | CH 63 | E63 | CC 13 | S13 | | | CH 124 | F24 |
| CH 23 | E23 | CH 64 | E64 | CC 14 | S14 | | | CH 125 | F25 |
| CH 24 | E24 | CH 65 | E65 | CC 15 | S15 | | | CH 126 | F26 |
| CH 25 | E25 | CH 66 | E66 | CC 16 | S16 | | | CH 127 | F27 |
| CH 26 | E26 | CH 67 | E67 | CC 17 | S17 | | | CH 128 | F28 |
| CH 27 | E27 | CH 68 | E68 | CC 18 | S18 | | | CH 129 | F29 |
| CH 28 | E28 | CH 69 | E69 | CC 19 | S19 | | | CH 130 | F30 |
| CH 29 | E29 | | | CC 20 | S20 | | | CH 131 | F31 |
| CH 30 | E30 | | | CC 21 | S21 | | | CH 132 | F32 |
| CH 31 | E31 | | | CC 22 | S22 | | | CH 133 | F33 |
| CH 32 | E32 | | | CC 23 | S23 | | | CH 134 | F34 |
| CH 33 | E33 | | | CC 24 | S24 | | | CH 135 | F35 |
| CH 34 | E34 | | | CC 25 | S25 | | | CH 136 | F36 |
| CH 35 | E35 | | | CC 26 | S26 | | | CH 137 | F37 |
| CH 36 | E36 | | | CC 27 | S27 | | | CH 138 | F38 |
| CH 37 | E37 | | | CC 28 | S28 | | | CH 139 | F39 |
| CH 38 | E38 | | | CC 29 | S29 | | | CH 140 | F40 |
| CH 39 | E39 | | | CC 30 | S30 | | | CH 141 | F41 |
| CH 40 | E40 | | | CC 31 | S31 | | | CH 142 | F42 |
| CH 41 | E41 | | | CC 32 | S32 | | | CH 143 | F43 |
| CH 42 | E42 | | | CC 33 | S33 | | | CH 144 | F44 |
| CH 43 | E43 | | | CC 34 | S34 | | | CH 145 | F45 |
| CH 44 | E44 | | | CC 35 | S35 | | | CH 146 | F46 |
| CH 45 | E45 | | | CC 36 | S36 | | | CH 147 | F47 |
| CH 46 | E46 | | | CC 37 | S37 | | | CH 148 | F48 |
| CH 47 | E47 | | | CC 38 | S38 | | | CH 149 | F49 |
| CH 48 | E48 | | | CC 39 | S39 | | | CH 150 | F50 |
| CH 49 | E49 | | | CC 40 | S40 | | | | |
| CH 50 | E50 | | | | | | | | |

| CH 1-- | Channel | CC 1-- | Frequency (MHz) | CH 2-- | Channel | CH 2-- | Channel | CC 2-- | Channel |
|--------|---------|--------|-----------------|--------|----------------|--------|---------|--------|------------|
| CH 151 | F51 | CC 110 | 116 - 124 | CH 202 | E2, ITALY A | CH 251 | E51 | CC 201 | S1 |
| CH 152 | F52 | CC 111 | 124 - 132 | CH 203 | E3 | CH 252 | E52 | CC 202 | S2 |
| CH 153 | F53 | CC 112 | 132 - 140 | CH 204 | E4, ITALY B | CH 253 | E53 | CC 203 | S3 |
| CH 154 | F54 | CC 113 | 140 - 148 | CH 205 | E5, ITALY D | CH 254 | E54 | CC 204 | S4 |
| CH 155 | F55 | CC 114 | 148 - 156 | CH 206 | E6, ITALY E | CH 255 | E55 | CC 205 | S5 |
| CH 156 | F56 | CC 115 | 156 - 164 | CH 207 | E7, ITALY F | CH 256 | E56 | CC 206 | S6 |
| CH 157 | F57 | CC 116 | 164 - 172 | CH 208 | E8, ITALY G | CH 257 | E57 | CC 207 | S7 |
| CH 158 | F58 | CC 123 | 220 - 228 | CH 209 | E9 | CH 258 | E58 | CC 208 | S8 |
| CH 159 | F59 | CC 124 | 228 - 236 | CH 210 | E10, ITALY H | CH 259 | E59 | CC 209 | S9 |
| CH 160 | F60 | CC 125 | 236 - 244 | CH 211 | E11, ITALY H+1 | CH 260 | E60 | CC 210 | S10 |
| CH 161 | F61 | CC 126 | 244 - 252 | CH 212 | E12, ITALY H+2 | CH 261 | E61 | CC 211 | S11 |
| CH 162 | F62 | CC 127 | 252 - 260 | CH 221 | E21 | CH 262 | E62 | CC 212 | S12 |
| CH 163 | F63 | CC 128 | 260 - 268 | CH 222 | E22 | CH 263 | E63 | CC 213 | S13 |
| CH 164 | F64 | CC 129 | 268 - 276 | CH 223 | E23 | CH 264 | E64 | CC 214 | S14 |
| CH 165 | F65 | CC 130 | 276 - 284 | CH 224 | E24 | CH 265 | E65 | CC 215 | S15 |
| CH 166 | F66 | CC 131 | 284 - 292 | CH 225 | E25 | CH 266 | E66 | CC 216 | S16 |
| CH 167 | F67 | CC 132 | 292 - 300 | CH 226 | E26 | CH 267 | E67 | CC 217 | S17 |
| CH 168 | F68 | CC 133 | 300 - 306 | CH 227 | E27 | CH 268 | E68 | CC 218 | S18 |
| CH 169 | F69 | CC 141 | 306 - 311 | CH 228 | E28 | CH 269 | E69 | CC 219 | S19 |
| | | CC 142 | 311 - 319 | CH 229 | E29 | | | CC 220 | S20 |
| | | CC 143 | 319 - 327 | CH 230 | E30 | | | CC 221 | S21 |
| | | CC 144 | 327 - 335 | CH 231 | E31 | | | CC 222 | S22 |
| | | CC 145 | 335 - 343 | CH 232 | E32 | | | CC 223 | S23 |
| | | CC 146 | 343 - 351 | CH 233 | E33 | | | CC 224 | S24 |
| | | CC 147 | 351 - 359 | CH 234 | E34 | | | CC 225 | S25 |
| | | CC 148 | 359 - 367 | CH 235 | E35 | | | CC 226 | S26 |
| | | CC 149 | 367 - 375 | CH 236 | E36 | | | CC 227 | S27 |
| | | CC 150 | 375 - 383 | CH 237 | E37 | | | CC 228 | S28 |
| | | CC 151 | 383 - 391 | CH 238 | E38 | | | CC 229 | S29 |
| | | CC 152 | 391 - 399 | CH 239 | E39 | | | CC 230 | S30 |
| | | CC 153 | 399 - 407 | CH 240 | E40 | | | CC 231 | S31 |
| | | CC 154 | 407 - 415 | CH 241 | E41 | | | CC 232 | S32 |
| | | CC 155 | 415 - 423 | CH 242 | E42 | | | CC 233 | S33 |
| | | CC 156 | 423 - 431 | CH 243 | E43 | | | CC 234 | S34 |
| | | CC 157 | 431 - 439 | CH 244 | E44 | | | CC 235 | S35 |
| | | CC 158 | 439 - 447 | CH 245 | E45 | | | CC 236 | S36 |
| | | CC 159 | 447 - 455 | CH 246 | E46 | | | CC 237 | S37 |
| | | CC 160 | 455 - 463 | CH 247 | E47 | | | CC 238 | S38 |
| | | CC 161 | 463 - 469 | CH 248 | E48 | | | CC 239 | S39 |
| | | | | CH 249 | E49 | | | CC 240 | S40 |
| | | | | CH 250 | E50 | | | CC 241 | S41 |
| | | | | | | | | CC 275 | X |
| | | | | | | | | CC 276 | Y |
| | | | | | | | | CC 277 | Z, ITALY C |
| | | | | | | | | CC 278 | Z+1 |
| | | | | | | | | CC 279 | Z+2 |

SPECIFICATIONS

| Item | Model | AV-28WX1EP | AV-32WX1EP |
|--------------------------|--------------|--|---|
| TV RF systems | | CCIR L, B/G, I | |
| Colour systems | | PAL, SECAM (NTSC 3.58 / 4.43 MHz only in EXT modes) | |
| Channels and frequencies | | F2-F10, F21-F69, E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, A-H, H+1, H+2 * Receives French cable TV channel frequencies 116 - 172 MHz and 220 - 469 MHz | |
| Sound-multiplex systems | | A2 / NICAM (B/G, L) system | |
| Teletext systems | | Fastext (United Kingdom system) / TOP (German system) / WST (standard system) | |
| Power requirements | | AC 220 - 240 V, 50 Hz | |
| Power consumption | | Maximum 217 W, Average 116 W Standby 1.1 W | Maximum 218 W, Average 116 W Standby 1.1 W |
| Picture tube size | | Visible area 66 cm (measured diagonally) | Visible area 76 cm (measured diagonally) |
| Audio output | | Rated Power output 20 W + 20 W | |
| Speakers | | 3.5 cm round x 2, 10 cm round x 2 | |
| External input / output | EXT-1, EXT-2 | 21-pin Euroconnector (SCART) | |
| | EXT-3 | VIDEO IN (RCA) AUDIO L / R IN (RCA) | |
| | AUDIO OUT | (Variable out (0-1 Vrms), low impedance) CENTRE output (RCA) FRONT L/R output (RCA) SURROUND REAR L/R output (RCA) | |
| | | Headphone jack (stereo mini jack, dia. 3.5 mm) | |
| Dimensions (W x H x D) | | 716 mm x 489 mm x 496 mm | 805 mm x 550 mm x 550 mm |
| Weight | | 37.5 kg | 48.4 kg |
| Accessories | | Remote control unit RM-C782 x 1 AAA (R03) dry cell battery x 2 | |

Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

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JVC
VICTOR COMPANY OF JAPAN, LIMITED

SPECIFICATIONS

| Item | Content | |
|----------------------------------|--|---|
| | 28" | 32" |
| Dimensions(W×H×D) | 716mm×489mm×496mm | 805mm×550mm×550mm |
| Mass | 37.5kg | 48.4kg |
| TV RF System | CCIR L, B/G, I | |
| Colour System | PAL / SECAM / NTSC (only in EXT modes) | |
| Stereo System | NICAM (L, B/G) / A2(B/G) | |
| Teletext system | FASTEXT (United Kingdom system), TOP (Germany system) WST (Standard system) | |
| Receiving Channels and Frequency | VHF 47MHz - 470MHz [E2~E12, ITALY A~H+2, X~Z+2, S1~S41] NF-B~NF-6, B~Q, F2~F10 UHF 470MHz - 862MHz E21~E69, F21~F69 | |
| Intermediate Frequency | VIF Carrier 38.9MHz (L, B/G, I) / 34.25MHz (L') SIF Carrier 32.4MHz (L: 6.5MHz), 33.4MHz (B/G: 5.5MHz) 32.9MHz (I: 6.0MHz) / 40.75MHz (L': 6.5MHz) | |
| Colour Sub Carrier Frequency | PAL 4.43MHz SECAM 4.40625MHz / 4.25MHz NTSC 3.58MHz / 4.43MHz | |
| Power Input | 230V (220~240V) AC, 50Hz | |
| Power Consumption | 116W(Avg.), 217W(Max) | 116W(Avg.), 218W(Max) |
| Picture Tube | Visible size: 66cm Diagonally measured | Visible size: 76cm Diagonally measured |
| High Voltage | 32.0kV +1kV -1.5kV (at zero beam current) | |
| Speaker | φ3.5cm round×2, φ10cm round×2 (8Ω) | |
| Audio Output | 20W + 20W | |
| External | 21-pin Euroconnector (SCART socket) | |
| EXT-1 / EXT-2 (INPUT/OUTPUT) | Video : 1VP-P 75Ω (RCA pin jack) | |
| EXT-3 (INPUT) | Audio(L/R) : 500mVrms (-4dBs), High Impedance (RCA pin jack) | |
| Aerial Input Terminal | 75Ω Unbalanced, Coaxial | |
| Remote Control Unit | RM-C782 [Battery size : UM-4 AAA IECR03 1.5V×2] | |

Design & specification subject to change without notice.

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 "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes.

For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

- Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

- Don't short between the LIVE side ground and ISOLATED(NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⊥) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
 If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B₁ POWER SUPPLY).

- The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

- Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

- When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

- Isolation Check
(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

- (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

- (2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

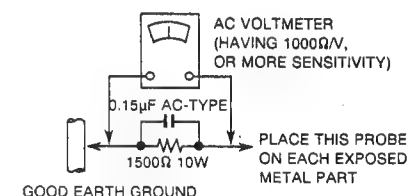


Fig.A

FEATURES

- By preference, users can select the picture size from REGULAR, FULL, 16:9 ZOOM, 14:9 ZOOM, 16:9 TOP, 14:9 TOP modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically.
- The TELETEXT SYSTEM has a built-in FASTEXT, TOP and WST system.
- Picture and sound can be changed in a moment to CINEMA, GAME, STANDARD 1 & 2 and USER modes, respectively. At USER mode, desired qualities of picture and/or sound can be stored.
- Thanks to the newly employed DSP control micro computer, users can select 3D-PHONIC, and enjoy Surround effect at each mode.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Users can make VTR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output.
- In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.

MAIN DIFFERENCE LIST BETWEEN AV-28WX1EP AND AV-32WX1EP

| ITEMS | AV-28WX1EP | AV-32WX1EP | REMARKS |
|-------------------------|----------------|----------------|---------|
| PICTURE TUBE | W66LKV075X05 | W76ESF031X14 | V01 |
| DEG. COIL | CELD061-001J2 | CELD062-001J2 | L01 |
| BRAIDED ASS'Y | CHGB0015-0B | CHGB0018-0A-N | |
| FRONT CABL. ASS'Y | CM12677-B0D-KD | CM12587-B0J-KD | |
| REAR COVER | CM12582-004-KD | CM12737-003-KD | |
| | | | |
| HVT | CETH014-00AJ1 | CETH015-00AJ1 | |
| PACKING CASE (EURO BOX) | AEM1002-044-E | AEM1002-043-E | |
| CUSHION ASS'Y | CP11547-00B-E | CP11549-00B-E | |
| EURO LABEL | AEM1038-023-E | AEM1038-025-E | |
| ROTATION COIL | — | CELD904-001 | L03 |
| MAIN PWB ASS'Y | SJD-1001A-U2 | SJD-1002A-U2 | |
| POWER/DEF PWB ASS'Y | SJD-2001A-U2 | SJD-2002A-U2 | |
| CRT SOCKET PWB ASS'Y | SJD-3001A-U2 | SJD-3002A-U2 | |
| FRONT CONTROL PWB ASS'Y | SJD-8001A-U2 | SJD-8002A-U2 | |

SPECIFIC SERVICE INSTRUCTIONS

REPLACEMENT OF CHIP COMPONENT

CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

SOLDERING IRON

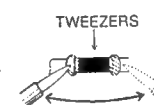
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

REPLACEMENT STEPS

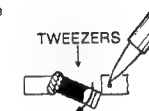
1. How to remove Chip parts

- Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

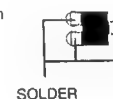


- (2) Shift with tweezers and remove the chip part.



- Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

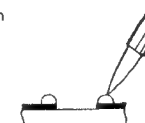


Note: After removing the part, remove remaining solder from the pattern.

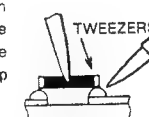
2. How to install Chip parts

- Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.



- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



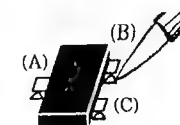
- Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.

- (2) Grasp the chip part with tweezers and place it on the solder.

- (3) First solder lead A as indicated in the figure.

- (4) Then solder leads B and C.



DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

[AV-28WX1EP]

1. Unplug the power supply cord.
2. Remove the 13 screws marked (A) as shown in Fig. 2.
3. Withdraw the rear cover toward you.

[AV-32WX1EP]

1. Unplug the power supply cord.
2. Remove the 13 screws marked (A) as shown in Fig. 1.
3. Withdraw the rear cover toward you.

REMOVING THE CHASSIS

- After removing the rear cover.
1. Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the chassis from the front cabinet.
 2. Withdraw the chassis backward.
(If necessary, take off the wire clamp, connectors etc.)

REMOVING THE AV TERMINAL BOARD

1. Remove a screw marked (B) as shown in Fig. 2.
2. While raising the claw marked (D), remove the AV TERMINAL board slightly. (Fig. 3)
(If necessary, take off the wire clamp, connectors etc.)

REMOVING THE SPEAKER BOX

- After removing the rear cover.
1. Remove the 2 screws marked (C) as shown in Fig. 2.
 2. Follow the same steps when removing the other hand speaker box.
- Note:
- When removing the screws marked (C) of the speaker box, remove the lower side screw first, and then remove the upper screw.

CHECKING THE PW BOARD

1. To check the back side of the PW Board.
 - 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
 - 2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT earth wire (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

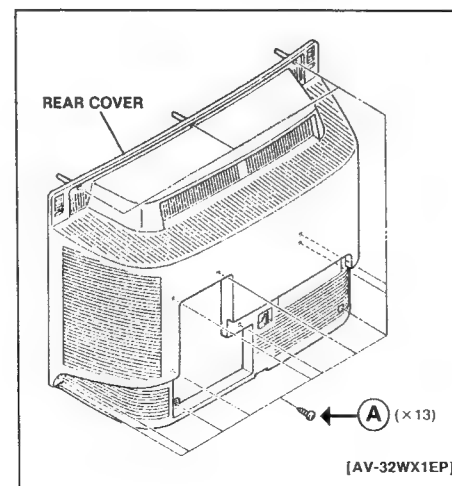


Fig. 1

[AV-28WX1EP]

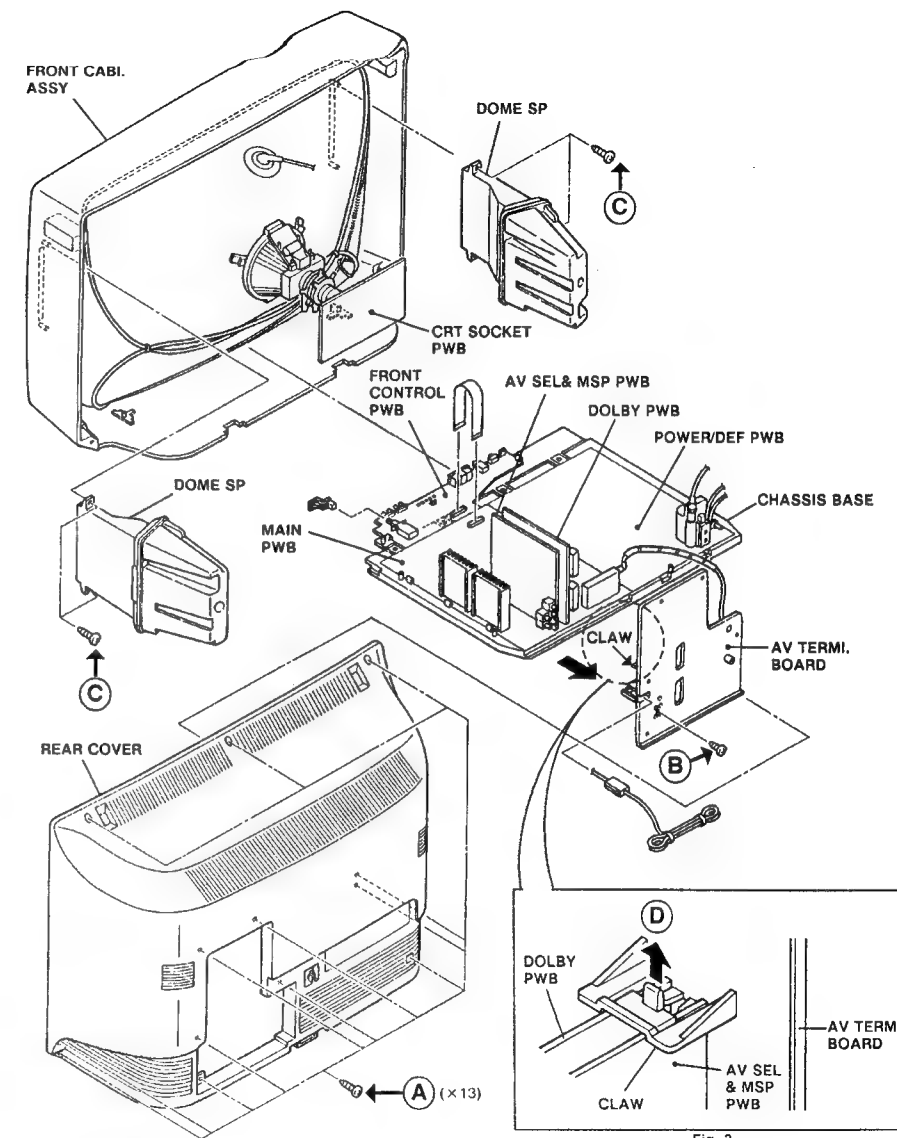


Fig. 2

REMOVING THE CRT

※ Because of the considerable weight, at least 2 workers are needed to replace the CRT.

- Remove the rear cover.
 - Take out the main chassis. Disengage the connectors of the anode cap, degaussing coil etc. (Fig.4) and remove the chassis completely.
- As indicated in Fig. 5, place an under layer of soft cloth. At top of this, prepare a work stand also covered with soft cloth.
 - After removing the chassis, place the set on the work stand in a balanced manner with the CRT face downwards.
 - Use a screw-driver to remove 4 screws. Use care the cabinet does not drop downwards when the screws are removed.
 - Gently lower the cabinet onto the cloth while using care not to scratch the cabinet.

- Install the new CRT by reversing the above steps.

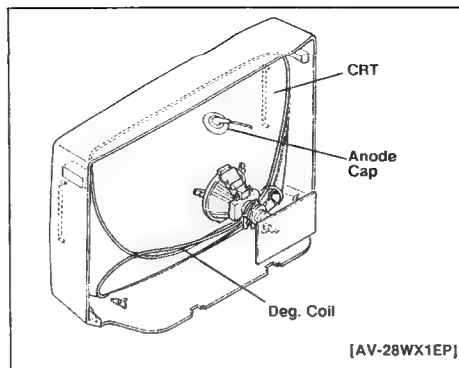


Fig. 4

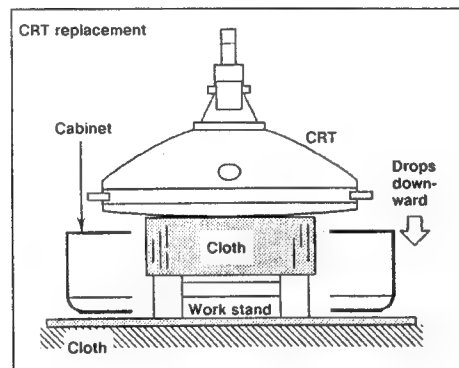


Fig. 5

APPLY INSULATING SILICON GREASE TO ANODE CAP

- After replacing the CRT, flyback transformer or performing service with the anode cap disconnected, be sure to apply insulating silicon grease as indicated in Fig. 6.
- Wipe the anode button circumference with a clean cloth.
 - As shown in Fig. 6, apply silicon grease around the anode button circumference, but use care not to apply the grease to the button itself.

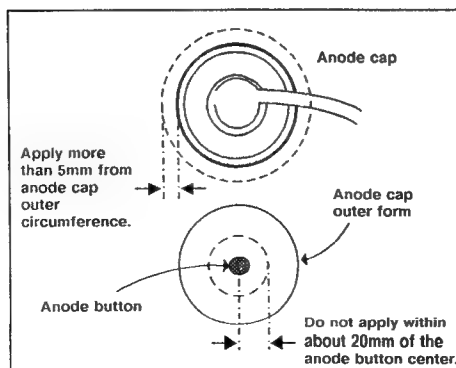


Fig. 6

REPLACEMENT OF MEMORY ICs

1. Memory IC

This TV use a non-volatile memory IC (EEP-ROM IC). In the memory IC are memorized data for correctly operating the video and deflection circuits. When replacing it, be sure to use a memory IC containing the initial values (not blank one).

2. Procedure for replacing memory ICs

| Procedure |
|--|
| (1) Power off Switch the power off and unplug the power code from the outlet. |
| (2) Replacing the memory IC. Replace with the new memory IC containing the initial values. |
| (3) Power on Plug the power code into the outlet and switch the power on. |
| (4) Check and set SYSTEM CONSTANT SET <ol style="list-style-type: none"> Press the DISPLAY key and the STANDARD key of the REMOTE CONTROL UNIT simultaneously. The SERVICE MENU screen shown in Fig. 1 will be displayed. While the SERVICE MENU on display, press the DISPLAY key and STANDARD key simultaneously, and the SYSTEM CONSTANT SET screen shown in Fig. 2 will be displayed. Check the setting value of the SYSTEM CONSTANT SET shown in Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION L/R key. Press the OK key and memorize the setting value. Press the DISPLAY key twice, and return to the normal screen. |
| (5) Setting of receive channels Set the receive channels. For setting, refer to the OPERATING INSTRUCTIONS. |
| (6) User Setting Check the user setting value of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS. |
| (7) Setting of SERVICE MENU Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS. |

SERVICE MENU

| SERVICE MENU |
|---|
| 1.IF 2.V/C |
| 3.AUDIO 4.DEF |
| 5.VSM PRESET 6.VPS |
| 7.AUTO PROGRAM(OFF) |
| 1-7: SELECT <input type="checkbox"/> : EXIT |

Fig. 1

SYSTEM CONSTANT SET

| SYSTEM CONSTANT SET |
|--|
| MODEL = 28/32WX1 (V) |
| 1.COUNTRY : EP |
| 2.INCH : 28 |
| - + <input type="checkbox"/> : STORE <input type="checkbox"/> : EXIT |
| JVC JD WIDE V01 |
| M37270MF-X x x SP |
| M37471MB-349SP |

Fig. 2

[AV-28WX1EP]

NAMES OF REMOTE CONTROL KEY

| Names of key | key |
|--------------|--------------------------|
| DISPLAY | <input type="checkbox"/> |
| OK | <input type="checkbox"/> |
| FUNCTION | <input type="checkbox"/> |
| UP/DOWN | <input type="checkbox"/> |
| FUNCTION L/R | <input type="checkbox"/> |

Table 1
SETTING VALUES OF SYSTEM CONSTANT SET

| Setting item | Setting content | Setting value |
|--------------|-----------------|--|
| 1. COUNTRY | →EP → EK← | EP |
| 2. INCH | →28 → 32← | AV-28WX1EP ... 28 AV-32WX1EP ... 32 |

Table 2
USER SETTING VALUES

| Setting item | Setting value | Setting item | Setting value |
|--------------|--------------------------|-------------------|------------------|
| SUB POWER | ON | DISPLAY | POSITION DISPLAY |
| CHANNEL | 1 POSITION | TV/EXT | TV |
| VOLUME | Appropriate sound volume | ASPECT MODE(ZOOM) | FULL |

MENU ITEM SETTING VALUES

| Setting item | Setting value | Setting item | Setting value |
|-----------------|---------------|--------------|---------------|
| PICTURE | COLOR SYSTEM | SOUND | TV SPEAKER |
| | SETTING | | L/R |
| FEATURES | SLEEP TIMER | BASS | CENTER |
| | CINEMA/GAME | | |
| | ECO MODE | | |
| | BLUE BACK | | |
| DIGITAL SUUOUND | SURROUND OFF | | |
| EXT SOURCE | DUBBING | | |
| INSTALL | LANGUAGE | | |

Table 3
SERVICE MENU SETTING ITEMS

| Service menu | Setting item | Service menu | Setting item |
|--------------|--|---------------|---|
| 1. IF | 1. VCO 2. DELAY POINT | 4. DEF. | 1. V-SLOPE 6. EW-PIN 2. V-SHIFT 7. TRAPEZ 3. V-SIZE 8. V-S. CR 4. H-CENT 9. EW-COR 5. H-SIZE |
| 2. V / C | 1. CUT OFF 2. R DRIVE 3. G DRIVE 4. B DRIVE (Do not adjust) 5. BRIGHT 6. CONT. 7. COLOUR (PAL/SECAM /N3 /N4) 8. TINT (NTSC) | 5. VSM PRESET | 1. BRIGHT 6. R DRIVE 2. CONT. 7. G DRIVE 3. COLOUR 8. B DRIVE 4. SHARP 9. BASS 5. TINT 10. TREBLE |
| 3. AUDIO | 1. CONC LIMIT (Do not adjust) 2. A2 ID THR (Do not adjust) | | |

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

- There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Turn on the power of the TV and measuring equipment for warming up for at least 30 minutes before starting adjustment.
- Make sure that connection is correctly made to AC power source.
- If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
- Preparation for adjustment (presetting): Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

| | |
|---------------------------------------|--|
| (1) VSM preset | Push "STANDARD" key to set STANDARD 1 mode |
| (2) ECO | OFF |
| (3) SURROUND | OFF |
| (4) BALANCE | CENTER |
| (5) ASPECT MODE | FULL |
| (6) ROTATION SW [For 32 inch only] | CENTER (RESET) |

■ Push the STANDRD key before starting the adjustments, and do not push it during the adjustments.

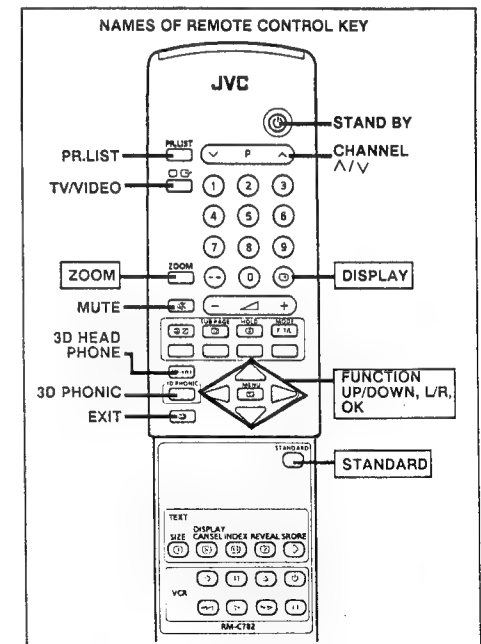
ADJUSTMENT ITEMS

- B1 power supply check
- FOCUS adjustment
- IF circuit adjustment
- VSM PRESET setting
- VIDEO / CHROMA circuit adjustment
- DEFLECTION circuit adjustment
- BLANKING adjustment
- AUDIO circuit adjustment (Do not adjust)
- VPS monitor display (Do not adjust)

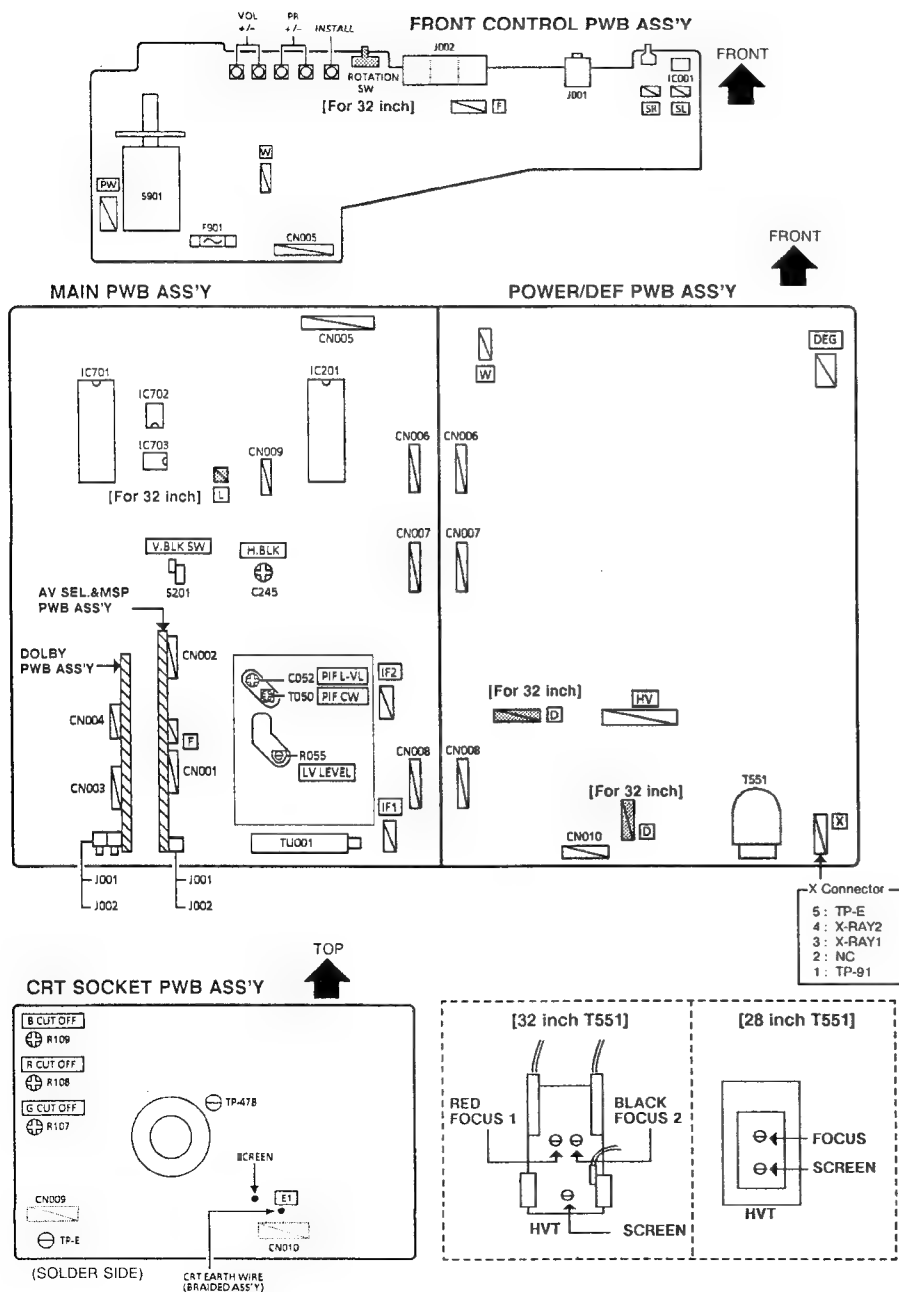
MEASUREMENT EQUIPMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator) [PAL / SECAM / NTSC]
- Remote control unit

ADJUSTMENT LOCATIONS- I



ADJUSTMENT LOCATION-II



BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

- (1) 1. IF This mode adjusts the data of the IF circuit.
- (2) 2. V/C This mode adjusts the data of the VIDEO / CHROMA circuit.
- (3) 3. AUDIO This mode adjusts DETECTION LEVEL of the signal for IC of A2/NICAM multiplex broadcast. (Do not adjust).
- (4) 4. DEF This mode adjusts the data of DEFLECTION circuit for each aspect mode given below.

| | |
|-----------|-------------|
| FULL | (50 / 60Hz) |
| 16:9 TOP | (50 / 60Hz) |
| 14:9 TOP | (50 / 60Hz) |
| REGULAR | (50 / 60Hz) |
| PANORAMIC | (50 / 60Hz) |
| 16:9 ZOOM | (50 / 60Hz) |
| 14:9 ZOOM | (50 / 60Hz) |
- (5) 5. VSM PRESET This mode adjusts the data value of the picture and sound which are called out when CINEMA/GAME picture status in the FEATURE menu has been selected. (VSM : Video Status Memory)
- (6) 6. VPS This mode shows the monitor of the VPS and PDC. (Do not adjust). (VPS : Video Program System, PDC : Program Delivery Code)
- (7) 7. AUTO PROGRAM ... This mode initializes every existing set value collectively to the preset value at the time of shipment from the factory.

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the DISPLAY and the STANDARD key of the REMOTE CONTROL UNIT simultaneously (Fig. 2). The SERVICE MENU screen of Fig.1 will be displayed.

(2) Selection of SUB MENU SCREEN

- 1) Press one of the keys 1 ~ 7 of the REMOTE CONTROL UNIT, and select the SUB MENU SCREEN (See Fig. 3) from the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF
2. V / C
3. AUDIO
4. DEF.
5. VSM PRESET
6. VPS
7. AUTO PROGRAM

NAMES OF REMOTE CONTROL KEY

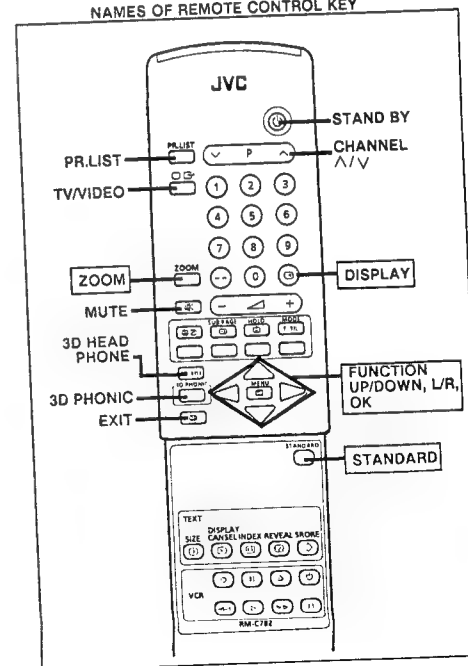


Fig. 2

SERVICE MENU

SERVICE MENU

| | |
|----------------------|---------|
| 1. IF | 2. V/C |
| 3. AUDIO | 4. DEF. |
| 5. VSM PRESET | 6. VPS |
| 7. AUTO PROGRAM(OFF) | |

1-7: SELECT □ EXIT

Fig. 1

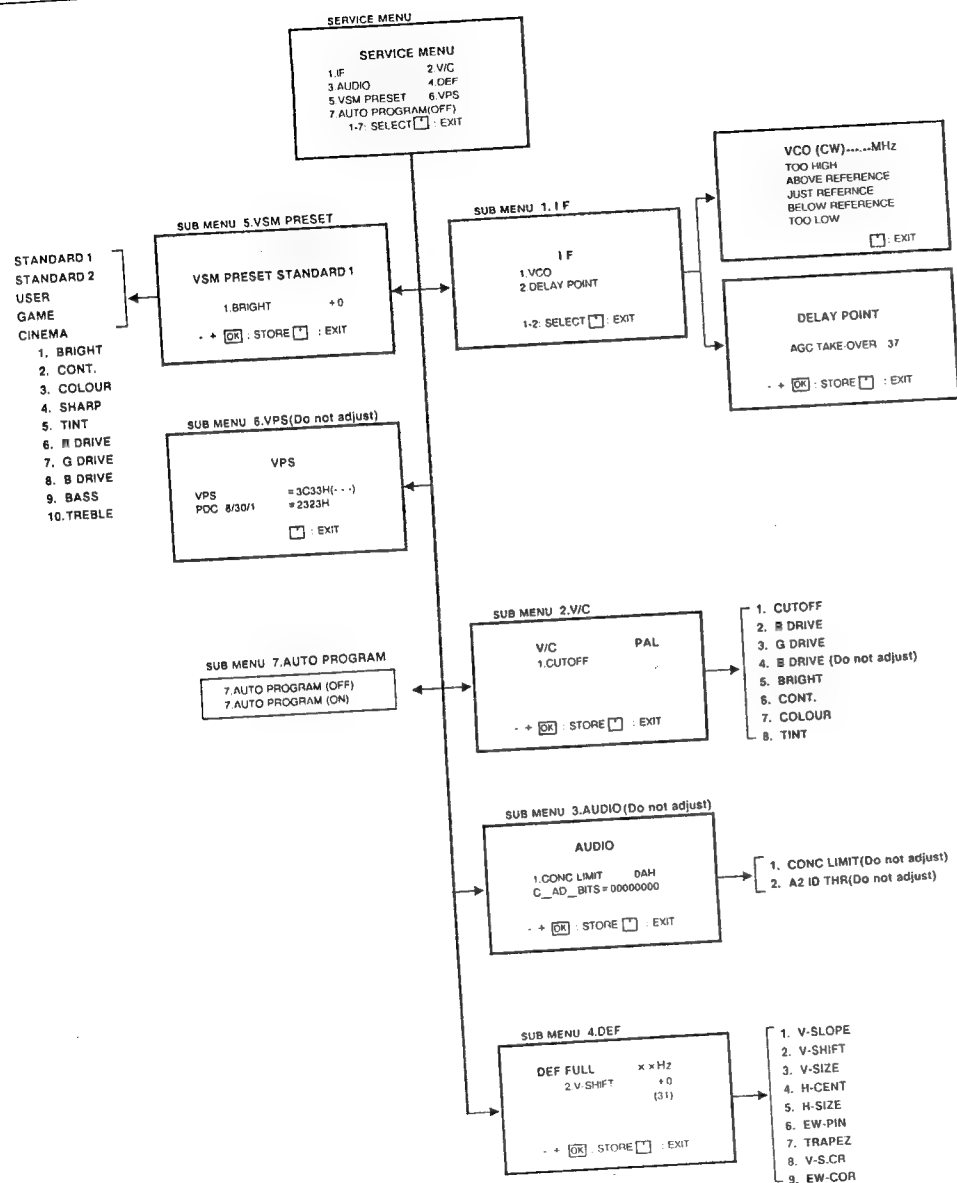


Fig. 3 SUB MENU SCREEN

(3) Method of Setting

1) Method of Setting 1. IF

[1. VCO]

- ① 1 Key Select 1.IF.
- ② 1 Key Select 1.VCO.
- ③ The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
- ④ DISPLAY Key As you press this twice, you will return to the SERVICE MENU.

[2. DELAY POINT]

- ① 1 Key Select 1.IF.
- ② 2 Key Select 2.DELAY POINT.
- ③ FUNCTION L/R Set (adjust) the setting values of the setting items.
- ④ OK Key Memorize the set value.
(Before storing the setting values in memory, do not press the CH, TV / VIDEO, DISPLAY, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
- ⑤ DISPLAY Key When this is pressed twice, you will return to the SERVICE MENU.

2) Method of setting 2.V/C, 4.DEF and 5.VSM PRESET.

- ① 2, 4, 5keys Select one from 2. V/C, 4. DEF and 5. VSM PRESET.
- ② FUNCTION UP/DOWN key Select setting items.
- ③ FUNCTION L/R key Set (adjust) the setting values of the setting items. (When 1.CUTOFF of 2.V/C is selected, press its "L" or "R" key, and the whole screen will change to a faint horizontal line appearing in its center. Press the same "L" or "R" key again, and the screen will return to the original 1.CUTOFF screen.)
- ④ OK Key Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV / VIDEO, DISPLAY, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
- ⑤ DISPLAY Key Return to the SERVICE MENU screen.

(4) Release of SERVICE MENU

- 1) After completing the setting, return to the SERVICE MENU, then again press the DISPLAY key.

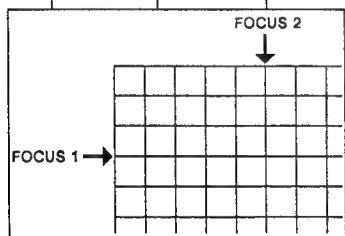
ADJUSTMENTS

B1 POWER SUPPLY CHECK

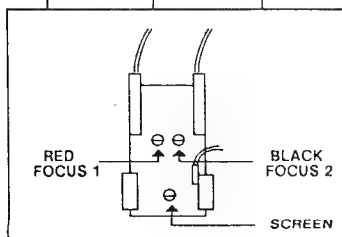
| Item | Measuring instrument | Test point | Adjustment part | Description |
|-----------------------|---------------------------------------|-------------------|-----------------|---|
| B1 power supply check | Signal generator DC Volt-meter | TP-91 TP-E (⚡) | | <ol style="list-style-type: none"> 1. Receive a whole black signal. 2. Connect a DC voltmeter to TP-91 and TP-E (⚡). 3. Make sure that the voltage is DC143.2V ± 2.0V. |

FOCUS adjustment

| Item | Measuring instrument | Test point | Adjustment part | Description |
|------------------|----------------------|------------|-------------------|---|
| FOCUS Adjustment | Signal generator | | FOCUS VR [In HVT] | <ul style="list-style-type: none"> • Select the ASPECT MODE to FULL. • Receive a cross-hatch signal. <p>[AV-28WX1EP]</p> <ol style="list-style-type: none"> 1. While observing the picture, turn the focus adjusting VR (a handle located at the upper part of HVT) so that the picture is adjusted within the range of an optimum focus position without distinct moiré. 2. Make sure that when the screen is darkened, the lines remain in good focus. <p>[AV-32WX1EP]</p> <ol style="list-style-type: none"> 1. By turning the black VR FOCUS 2, adjust the picture so that the 5th vertical line from the left side of the cross-hatch picture becomes thinnest. 2. By turning the red VR FOCUS 1, adjust the picture so that the 3rd horizontal line from the upper side of the cross-hatch picture becomes uniform at the line center and its periphery. 3. Carry out adjustment by repeating the steps 2 and 3 above. 4. Make sure that when the screen is darkened, the lines remain in good focus. |



FOCUS adjustment



AV-32WX1EP HVT FOCUS VR

IF circuit adjustment : SUB MENU 1. IF

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-------------------|----------------------|------------|-------------------------------------|---|
| Adjustment of VCO | Remote control unit | | PIF CW PIF L-VL CW [MAIN PWB] | <ul style="list-style-type: none"> • Do not make any adjustment unless the adjustment is out of way and you cannot get correct picture. <ol style="list-style-type: none"> 1. Select 1. IF from the SERVICE MENU. 2. Select 1. VCO. 3. Receive any broadcast. In the VCO setting mode, the channels can be selected with the FUNCTION UP/DOWN key. 4. Turn the core of PIF CW transf. until the colour of the characters TOO HIGH displayed on the screen changes from blue to yellow. (The characters indicated by the yellow colour are showing the present value of the AFC voltage.) (Step 1) 5. Turn the core of PIF CW transf. until the colour of the characters TOO HIGH changes TOO LOW. (Step 2) 6. Then slowly turn back the core of PIF CW transf. until the colour of the characters JUST REFERENCE changes from blue to yellow. (Step 3) 7. Then, receive a SECAM L broadcast channel that the district can receive it. 8. Adjust the PIF L-VL CW trimmer capacitor same manner as above step and readjust the PIF CW transf. many times. 9. Press the DISPLAY key three times to return to the normal screen. 10. Perform CHANNEL PR again, and make sure that each broadcast is being received properly. |

VCO (CW)....MHz
 TOO HIGH ← fv
 ABOVE REFERENCE
 JUST REFERENCE ← YELLOW
 BELOW REFERENCE
 TOO LOW
 DISP. EXIT

| Screen display | Step | | |
|-----------------|--------|----------|----------|
| | 1 | → 2 | → 3 |
| TOO HIGH | Yellow | → Blue | → Blue |
| ABOVE REFERENCE | Blue | → Blue | → Blue |
| JUST REFERENCE | Blue | → Blue | → Yellow |
| BELOW REFERENCE | Blue | → Blue | → Blue |
| TOO LOW | Blue | → Yellow | → Blue |

| | | | | |
|---------------------------------|---------------------|--|-----------------------------|--|
| Adjustment of DELAY POINT (AGC) | Remote control unit | | DELAY POINT (AGC TAKE-OVER) | <ol style="list-style-type: none"> 1. Receive a black and white signal (colour off). 2. Select 1. IF from the SERVICE MENU. 3. Select 2. DELAY POINT by pressing the 2 key on the remote control unit. 4. Adjust the FUNCTION L/R key until video noise disappears. 5. Press the OK key and memorize the set value. 6. Turn to other channels and make sure that there are not irregularities. |
|---------------------------------|---------------------|--|-----------------------------|--|

| Setting (adjustment) item | Variable range | Initial setting value |
|-----------------------------|----------------|-----------------------|
| DELAY POINT (AGC TAKE-OVER) | 0 ~ 63 | 30 |

VSM PRESET setting : SUB MENU 5. VSM PRESET

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-----------------------|----------------------|------------|--|--|
| Setting of VSM PRESET | Remote control unit | | 1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. TINT 6. R DRIVE 7. G DRIVE 8. B DRIVE 9. BASS 10. TREBLE | 1. Select 5.VSM PRESET from the SERVICE MENU. 2. Select STANDARD 1 mode with the STANDARD key. 3. Adjust the FUNCTION UP/DOWN and FUNCTION L/R key to bring the set values of 1.BRIGHT ~ 10.TREBLE to the values shown in the table . 4. Press the OK key and memorize the set value. 5. Select STANDARD 2 mode with the STANDARD key and set the value as same manner. 6. Then exit the SERVICE MENU by pressing the DISPLAY key, and enter to the MENU screen with the OK key. 7. Select the FEATURE item. 8. Select the CINEMA/GAME item, and set the each VSM mode for USER, CINEMA, GAME, and make similar adjustment as in 1 above. |

| Setting item | VSM preset mode | | | | |
|--------------|-----------------|------------|------|--------|------|
| | STANDARD 1 | STANDARD 2 | USER | CINEMA | GAME |
| 1. BRIGHT | +0 | +0 | +0 | +0 | +2 |
| 2. CONT. | +17 | +10 | +12 | +2 | +2 |
| 3. COLOUR | +2 | +0 | +0 | -2 | +0 |
| 4. SHARP | +0 | +0 | +0 | -2 | -2 |
| 5. TINT | +0 | +0 | +0 | +0 | +0 |
| 6. R DRIVE | -7 | +0 | -13 | +0 | +0 |
| 7. G DRIVE | +0 | +0 | -3 | -2 | +0 |
| 8. B DRIVE | +0 | +0 | +0 | -6 | +0 |
| 9. BASS | +0 | +0 | +0 | +6 | +4 |
| 10. TREBLE | +0 | +0 | +0 | +2 | +0 |

SETTING VALUES OF VSM PRESET

VIDEO/CHROMA circuit adjustment : SUB MENU 2. V/C

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.

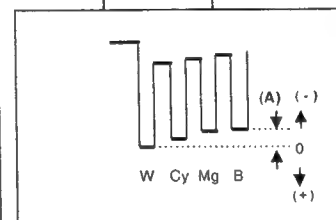
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

| Setting (adjustment) item | Variable range | Initial setting value | Colour system | | Variable range | PAL SECAM | NTSC |
|----------------------------|----------------|-----------------------|---------------------------------|-------------|----------------|-----------|------|
| 1. CUTOFF | ON / OFF | OFF | 7. COLOUR initial setting value | TV | -31 ~ +32 | +3 | — |
| 2. R DRIVE | -31 ~ +32 | +12 | | Comp. VIDEO | | — | +12 |
| 3. G DRIVE | -31 ~ +32 | +2 | | | | | |
| 4. B DRIVE (Do not adjust) | -31 ~ +32 | +0 (Fixed) | 8. TINT initial setting value | Comp. VIDEO | -31 ~ +32 | — | -2 |
| 5. BRIGHT | -31 ~ +32 | +6 | | | | | |
| 6. CONT. | -41 ~ +22 | -5 | | | | | |

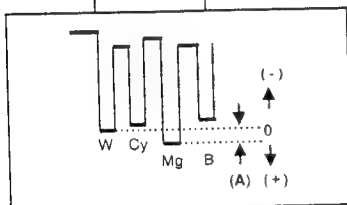
| Item | Measuring instrument | Test point | Adjustment part | Description |
|--|---|------------|---|--|
| Adjustment of WHITE BALANCE (Low light) | Signal generator Remote control unit | | R. CUT OFF VR G. CUT OFF VR B. CUT OFF VR [CRT SCT PWB] SCREEN VR [In HVT] | 1. Receive a black and white signal (colour off). 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.CUT OFF with the FUNCTION UP/DOWN key. 4. Shown one horizontal line with the FUNCTION L/R key. With the SCREEN VR, adjust so that the horizontal line will not be too bright. 5. Turn the CUT OFF VR respectively for R, G and B fully to the left (to the left direction when seen from the rear). 6. Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green and blue colours faintly visible. 7. By adjusting the CUT OFF VR, bring out the other 2 colours and make one horizontal line visible in white 8. Turn the SCREEN VR and bring one white horizontal line faintly visible. 9. Turn 1.CUTOFF off. |
| Adjustment of WHITE BALANCE (High light) | Signal generator Remote control unit | | 2. R DRIVE 3. G DRIVE 4. B DRIVE (Do not adjust) | 1. Receive a black and white signal (colour off). 2. Select 2.V/C with the SERVICE MENU. 3. Select 2.R DRIVE and 3.G DRIVE with the FUNCTION UP/DOWN key. 4. Change the screen colour to white with the FUNCTION L/R key. 5. Press the OK key, and memorize the respectively set values. |

| Item | Measuring instrument | Test point | Adjustment part | Description |
|----------------------------|----------------------|------------------|-----------------|---|
| Adjustment of SUB BRIGHT | Remote control unit | | 5. BRIGHT | <ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION L/R key. 5. If the brightness is not the best with the initial set value, make fine adjustment until you get the best brightness. 6. Press the OK key and memorize the set value. |
| Adjustment of SUB CONT. | Remote control unit | | 6. CONT. | <ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C with the SERVICE MENU. 3. Select 6.CONT. with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION L/R key. 5. If the contrast is not the best with the initial set value, make fine adjustment until you get the best contrast. 6. Press the OK key and memorize the set value. |
| Adjustment of SUB COLOUR I | Remote control unit | | 7. COLOUR | [Method of adjustment without using measuring equipment] |
| | | PAL COLOUR | | (PAL COLOUR) <ol style="list-style-type: none"> 1. Receive a PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 7.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION L/R key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the OK key and memorize the set value. |
| | | SECAM COLOUR | | (SECAM COLOUR) <ol style="list-style-type: none"> 7. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR as previously. |
| | | NTSC 3.58 COLOUR | | (NTSC 3.58 COLOUR) <ol style="list-style-type: none"> 8. Input NTSC3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 9. Make similar fine adjustment of NTSC3.58 COLOUR as previously. (NTSC 4.43 COLOUR) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. |

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-----------------------------|----------------------|--------------------------------------|------------------|--|
| Adjustment of SUB COLOUR II | Signal generator | TP-47B TP-E(+)) [CRT SCT PWB] | 7. COLOUR | [Method of adjustment using measuring equipment] |
| | Oscilloscope | | PAL COLOUR | (PAL COLOUR) <ol style="list-style-type: none"> 1. Receive a PAL full field colour bar signal (75% white). 2. Select 2.V/C from SERVICE MENU. 3. Select 7.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION L/R key. 5. Connect the oscilloscope between TP-47B and TP-E. 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to -12V (voltage difference between white (W) and blue (B)). 7. Press the OK key and memorize the setting value. |
| | Remote control unit | | | |
| | | | SECAM COLOUR | (SECAM COLOUR) <ol style="list-style-type: none"> 1. Receive a SECAM full field colour bar signal (75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION L/R key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to 0V (Voltage difference between white and blue). 4. Press the OK key and memorize the set value. |
| | | | NTSC 3.58 COLOUR | (NTSC 3.58 COLOUR) <ol style="list-style-type: none"> 1. Input NTSC3.58MHz COMPOSITE VIDEO signal (full field colour bar 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC3.58 COLOUR with the FUNCTION L/R key. 3. [For 28 inch] Adjust NTSC3.58 COLOUR and bring the value of (A) of the illustration to -5V (voltage difference between white (W) and blue (B)). [For 32 inch] Adjust the value of NTSC3.58 COLOUR to 0V. 4. Press the OK key and memorize the set value. NTSC 4.43 COLOUR) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. |



| Item | Measuring instrument | Test point | Adjustment part | Description |
|---------------------------|-------------------------------------|-------------------|-----------------|--|
| Adjustment of SUB TINT I | Remote control unit | | 8. TINT | [Method of adjustment without using measuring equipment] |
| | | | NTSC 3.58 TINT | <p>(NTSC 3.58 TINT)</p> <ol style="list-style-type: none"> 1. Input COMPOSITE VIDEO signal of NTSC3.58MHz from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.TINT with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION L/R key. 5. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. 6. Press the OK key and memorize the set value. <p>(NTSC 4.43 TINT) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</p> |
| Adjustment of SUB TINT II | Signal generator | TP-47B TP-E(↗) | 8. TINT | [Method of adjustment using measuring equipment] |
| | Oscilloscope Remote control unit | [CRT SCT PWB] | NTSC 3.58 TINT | <p>(NTSC 3.58 TINT)</p> <ol style="list-style-type: none"> 1. Input COMPOSITE VIDEO signal (full field colour bar 75% white) of NTSC3.58MHz from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.TINT with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION L/R key. 5. Connect the oscilloscope to TP-47B. 6. Adjust NTSC3.58 TINT to bring the value of (A) of the illustration to 0V (voltage difference between white (W) and magenta (Mg)). 7. Press the OK key and memorize the setting value. <p>(NTSC 4.43 TINT) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</p> |



DEFLECTION circuit adjustment : SUB MENU 4. DEF

- There is 14 different adjustments (FULL / 16:9 TOP / 14:9 TOP / REGULAR / PANORAMIC / 16:9 ZOOM & 14:9 ZOOM) to be made by VERTICAL FREQUENCY and AUTO ASPECT modes in total for the adjustment of deflection circuit.

- When the 50Hz / FULL MODE has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial set values.

[AV-28WX1EP]

INITIAL SETTING VALUE LIST

| ADJUSTMENT ITEM | ADJUSTMENT NAME | VARIABLE RANGE | FULL | | 16:9 TOP | | 14:9 TOP | |
|-----------------|-----------------------------------|----------------|------|------|----------|------|----------|------|
| | | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SLOPE | Vertical height | -31 ~ +32 | 32 | -1 | +27 | +0 | +16 | +0 |
| 2. V-SHIFT | Vertical center | -31 ~ +32 | 26 | +0 | +13 | +0 | +1 | -1 |
| 3. V-SIZE | Vertical height | -31 ~ +32 | 26 | -1 | +13 | -1 | +7 | -1 |
| 4. H-CENT | Horizontal center | -31 ~ +32 | 22 | +11 | -1 | +11 | +0 | +11 |
| 5. H-SIZE | Horizontal width | -31 ~ +32 | 49 | +0 | +0 | +0 | -4 | +0 |
| 6. EW-PIN | Side pin correction | -31 ~ +32 | 14 | +0 | +3 | +2 | +1 | +0 |
| 7. TRAPEZ | Trapezoidal distortion correction | -31 ~ +32 | 29 | -1 | -7 | -2 | +0 | +1 |
| 8. V-S.CR | Vertical height correction | -31 ~ +32 | 10 | +0 | +5 | +0 | +0 | +0 |
| 9. EW-COR | Side pin four corner correction | -31 ~ +32 | 5 | +0 | -1 | +5 | +5 | +0 |

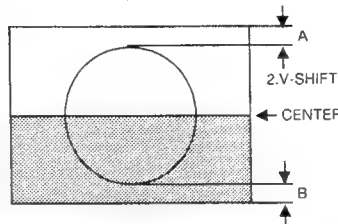
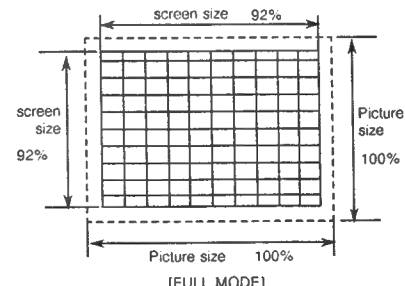
| ADJUSTMENT ITEM | ADJUSTMENT NAME | VARIABLE RANGE | REGULAR | | PANORAMIC | | 16:9 ZOOM | | 14:9 ZOOM | |
|-----------------|-----------------------------------|----------------|---------|------|-----------|------|-----------|------|-----------|------|
| | | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SLOPE | Vertical height | -31 ~ +32 | +0 | -1 | +0 | -1 | +0 | -1 | +0 | -1 |
| 2. V-SHIFT | Vertical center | -31 ~ +32 | +0 | +0 | +4 | +0 | +0 | +0 | +2 | +0 |
| 3. V-SIZE | Vertical height | -31 ~ +32 | +0 | +0 | +4 | -1 | +7 | -1 | -13 | +0 |
| 4. H-CENT | Horizontal center | -31 ~ +32 | +0 | +11 | +0 | +11 | +0 | +10 | +0 | +11 |
| 5. H-SIZE | Horizontal width | -31 ~ +32 | -10 | +0 | +5 | +0 | +0 | -1 | -4 | +0 |
| 6. EW-PIN | Side pin correction | -31 ~ +32 | +0 | +0 | +4 | +0 | +2 | -1 | -3 | -1 |
| 7. TRAPEZ | Trapezoidal distortion correction | -31 ~ +32 | +0 | +2 | -1 | +1 | -1 | +0 | +1 | +1 |
| 8. V-S.CR | Vertical height correction | -31 ~ +32 | +0 | +0 | +13 | +0 | -4 | +0 | +0 | +0 |
| 9. EW-COR | Side pin four corner correction | -31 ~ +32 | +12 | +0 | +18 | +10 | +2 | +0 | +5 | +0 |

[AV-32WX1EP]

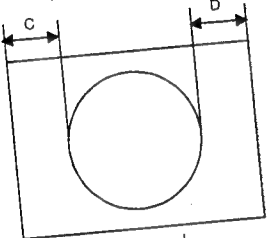
INITIAL SETTING VALUE LIST

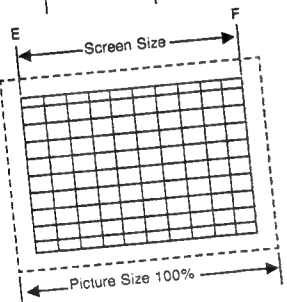
| ADJUSTMENT ITEM | ADJUSTMENT NAME | VARIABLE RANGE | FULL | | 16:9 TOP | | 14:9 TOP | |
|-----------------|-----------------------------------|----------------|------|------|----------|------|----------|------|
| | | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SLOPE | Vertical height | -31 ~ +32 | 31 | -1 | +33 | -1 | +24 | +0 |
| 2. V-SHIFT | Vertical center | -31 ~ +32 | 30 | +2 | +5 | +1 | -8 | -1 |
| 3. V-SIZE | Vertical height | -31 ~ +32 | 33 | +2 | +12 | +0 | -1 | -1 |
| 4. H-CENT | Horizontal center | -31 ~ +32 | 23 | +10 | -1 | +12 | -1 | +12 |
| 5. H-SIZE | Horizontal width | -31 ~ +32 | 48 | +0 | +0 | +0 | -6 | +0 |
| 6. EW-PIN | Side pin correction | -31 ~ +32 | 25 | +2 | +5 | +2 | +1 | +1 |
| 7. TRAPEZ | Trapezoidal distortion correction | -31 ~ +32 | 30 | -1 | -6 | -4 | +5 | -1 |
| 8. V-S.CR | Vertical height correction | -31 ~ +32 | 12 | +0 | +2 | -1 | +2 | +0 |
| 9. EW-COR | Side pin four corner correction | -31 ~ +32 | 36 | +0 | +9 | +0 | +3 | +1 |

| ADJUSTMENT ITEM | ADJUSTMENT NAME | VARIABLE RANGE | REGULAR | | PANORAMIC | | 16:9 ZOOM | | 14:9 ZOOM | |
|-----------------|-----------------------------------|----------------|---------|------|-----------|------|-----------|------|-----------|------|
| | | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SLOPE | Vertical height | -31 ~ +32 | +0 | -1 | +0 | -1 | +0 | -1 | +0 | -1 |
| 2. V-SHIFT | Vertical center | -31 ~ +32 | +0 | +0 | +4 | +1 | +2 | +1 | +4 | +0 |
| 3. V-SIZE | Vertical height | -31 ~ +32 | +1 | -1 | +2 | +0 | -8 | +0 | -28 | -1 |
| 4. H-CENT | Horizontal center | -31 ~ +32 | +2 | +9 | +0 | +10 | -1 | +12 | -1 | +12 |
| 5. H-SIZE | Horizontal width | -31 ~ +32 | -13 | +0 | +1 | +0 | +0 | +0 | -6 | +0 |
| 6. EW-PIN | Side pin correction | -31 ~ +32 | +1 | +0 | +7 | +0 | -2 | +1 | -8 | +1 |
| 7. TRAPEZ | Trapezoidal distortion correction | -31 ~ +32 | +1 | +2 | -2 | +0 | -3 | +0 | +0 | -1 |
| 8. V-S.CR | Vertical height correction | -31 ~ +32 | +0 | +0 | +10 | +0 | +0 | +0 | +0 | +0 |
| 9. EW-COR | Side pin four corner correction | -31 ~ +32 | +3 | +4 | +21 | +0 | +5 | +0 | -5 | -1 |

| Item | Measuring instrument | Test point | Adjustment part | Description | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|------------|------------------------|--|-----------|-----------|-----------|----------|---------|-----------|-----------|-----------|------------|-----|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|
| Adjustment of VERTICAL SLOPE | Signal generator | | 1. V-SLOPE V BLK SW | <ul style="list-style-type: none">Select the ASPECT MODE to FULL. <p>At that time, if there are any missing sections in the upper and the lower parts of the screen, adjust them by turning the BLK switch in the MAIN PWB in order to obtain an optimal screen with minimum missing sections.</p> <ol style="list-style-type: none">Receive a circle pattern signal of vertical frequency 50Hz.Select 4.DEF from the SERVICE MENU.Select 1.V-SLOPE with the FUNCTION UP / DOWN key.Set the initial setting value of V-SLOPE (50Hz mode) with the FUNCTION L / R key.Adjust V-SLOPE and make the screen's center line and the blanking line coincide.Press the OK key and memorize the set value. | | | | | | | | | | | | | | | | | | | | | | | | |
| | Remote control unit | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adjustment of VERTICAL SHIFT | | | 2. V-SHIFT | <ol style="list-style-type: none">Select 2.V-SHIFT and set the initial setting value.Adjust V-SHIFT to make A = B as shown in figure above.Press the OK key and memorize the set value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Adjustment of VERTICAL SIZE | | | 3. V-SIZE | <ol style="list-style-type: none">Receive a cross-hatch signal. (fv = 50Hz)Adjust 3.V-SIZE and set the initial setting value.Adjust V-SIZE and make the vertical screen size 92% of the picture size.Press the OK key and memorize the set value.When the deflection of vertical center is more than about 5mm, adjust the picture in the upward and downward directions by 3. V-SIZE. (The value within about 5mm is tolerable.)When adjusted in the 50Hz / FULL mode, other mode will be automatically set.Press the OK key and memorize the set value. | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>MODE</th><th>FULL</th><th>16:9 TOP</th><th>14:9 TOP</th><th>REGULAR</th><th>PANORAMIC</th><th>16:9 ZOOM</th><th>14:9 ZOOM</th></tr><tr><td>SCREEN TOP</td><td>92%</td><td>90%</td><td>90%</td><td>92%</td><td>87%</td><td>70%</td><td>80%</td></tr><tr><td>SCREEN BOTTOM</td><td>92%</td><td>50%</td><td>70%</td><td>92%</td><td>87%</td><td>70%</td><td>80%</td></tr></table> <p>[SCREEN SIZE]</p> | | | | | MODE | FULL | 16:9 TOP | 14:9 TOP | REGULAR | PANORAMIC | 16:9 ZOOM | 14:9 ZOOM | SCREEN TOP | 92% | 90% | 90% | 92% | 87% | 70% | 80% | SCREEN BOTTOM | 92% | 50% | 70% | 92% | 87% | 70% | 80% |
| MODE | FULL | 16:9 TOP | 14:9 TOP | REGULAR | PANORAMIC | 16:9 ZOOM | 14:9 ZOOM | | | | | | | | | | | | | | | | | | | | | |
| SCREEN TOP | 92% | 90% | 90% | 92% | 87% | 70% | 80% | | | | | | | | | | | | | | | | | | | | | |
| SCREEN BOTTOM | 92% | 50% | 70% | 92% | 87% | 70% | 80% | | | | | | | | | | | | | | | | | | | | | |

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-------------------------|----------------------|------------|-----------------|--|
| Adjustment of H. CENTER | | | 4. H-CENT | <ul style="list-style-type: none"> Select the ASPECT MODE to FULL. 1. Receive a circle pattern signal. (fv = 50Hz) 2. Select 4. DEF from SERVICE MENU. 3. Select 4.H-CENT and set the initial setting value. 4. Set H-CENT initial setting value by press the FUNCTION L / R key. 5. Adjust H-CENT to make C=D. 6. Press the OK key and memorize the set value. |
| Adjustment of H. SIZE | | | 5. H-SIZE | <ul style="list-style-type: none"> 7. Receive a cross-hatch signal. (fv = 50Hz) 8. Select 5.H-SIZE and set the initial setting value. 9. Adjust H-SIZE and make the horizontal screen size 92% of the picture size. 10. Press the OK key and memorize the set value. 11. When adjusted in the 50Hz/FULL mode, other mode will be automatically set. 12. Press the OK key and memorize the set value. |



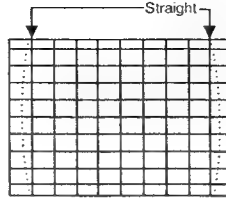


| MODE | FULL | 16:9 TOP | 14:9 TOP | REGULAR | PANORAMIC | 16:9 ZOOM | 14:9 ZOOM |
|------------|------|----------|----------|---------|-----------|-----------|-----------|
| AV-28WX1EP | 92% | 92% | 500mm | 430mm | 95% | 92% | 500mm |
| AV-32WX1EP | 92% | 92% | 570mm | 500mm | 95% | 92% | 570mm |

[SCREEN SIZE]

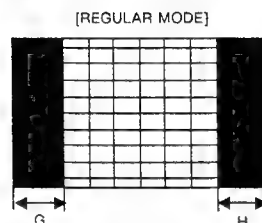
※ REGULAR, 14:9 TOP and 14:9 ZOOM MODE shown between E and F length.

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-----------------------|----------------------|------------|-----------------|---|
| Adjustment of EW-PIN | | | 6. EW-PIN | <ul style="list-style-type: none"> Select the ASPECT MODE to FULL. 1. Receive a cross-hatch signal(fv = 50Hz). 2. Select 4.DEF from SERVICE MENU. 3. Select 6.EW-PIN and set the initial setting value. 4. Set EW-PIN initial setting value by press the FUNCTION L / R key. 5. Adjust EW-PIN and make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 2nd vertical lines are also straight. 6. Press the OK key and memorize the set values. |
| Adjustment of TRAPEZ | | | 7. TRAPEZ | <ul style="list-style-type: none"> 7. Select 7.TRAPEZ and set the initial setting value. 8. Adjust TRAPEZ and bring the vertical lines at the right and left edges of the screen in parallel. 9. Press the OK key and memorize the set values. |
| Adjustment of V-S. CR | | | 8. V-S. CR | <ul style="list-style-type: none"> 10. Select 8.V-S. CR and set the initial setting values. 11. Adjust V-S. CR and make the gaps between the horizontal lines same. 12. Press the OK key and memorize the set values. |
| Adjustment of EW-COR | | | 9. EW-COR | <ul style="list-style-type: none"> 13. Select 9.EW-COR and set the initial setting values. 14. Adjust EW-COR and make the vertical lines at the four corners of the screen straight. 15. Press the OK key and memorize the set values. |
| | | | | <ul style="list-style-type: none"> 16. When adjusted in the 50Hz/FULL mode, other mode will be automatically set. 17. Make sure that the adjustment is properly done on the screen of 60Hz signal. Also make sure that the adjusted value falls within the tolerance in each ASPECT MODE. If the adjustment has not been done properly, adjust it in the same manner as for above. |



BLANKING adjustment

| Item | Measuring instrument | Test point | Adjustment part | Description |
|-----------------------|---|------------|-----------------|---|
| H BLANKING adjustment | Signal generator Remote control unit | | H BLK cap. | <ul style="list-style-type: none"> Set the ASPECT MODE to REGULAR. Receive ■ crosshatch signal. (fv = 50Hz) Refer to the figure and adjust the H BLK capacitor to equalize widths G and H (G = H). <p>If there are any missing sections of the screen, adjust them by turning the V BLK SW in order to obtain an optimal screen with minimum missing sections at the last again.</p> |



AUDIO circuit adjustment : SUB MENU 3. AUDIO

- Do not touch 3.AUDIO (1. CONC LIMIT, 2. A2 ID THR) of the SERVICE MENU as it requires no adjustment.

| Setting (adjustment) item | Variable range | Initial setting value (fixed) |
|-------------------------------|----------------|-------------------------------|
| 1. CONC LIMIT (Do not adjust) | 00H~FFH | 0AH |
| 2. A2 ID THR (Do not adjust) | 00H~FFH | 19H |


VPS monitor display : SUB MENU 6. VPS

- Do not touch 6. VPS monitor of the SERVICE MENU as it requires no.

AV-28WX1EP/AV-32WX1EP
STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal :PAL Colour bar signal
 - (2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
 - (3)Internal resistance of tester :DC 20kΩ/V
 - (4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
 - (5)Voltage values :All DC voltage values
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL[EXAMPLE]

- in the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

- No unit :[Ω]
- K :[KΩ]
- M :[MΩ]

- Rated allowable power

- No indication :1/6[W]
- Others :As specified

- Type

- No indication :Carbon resistor
- OMR :Oxide metal film resistor
- MFR :Metal film resistor
- MPR :Metal plate resistor
- UNFR :Uninflamable resistor
- FR :Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

- Capacitance value

- 1 or higher :[pF]
- less than 1 :[μF]

- Withstand voltage

- No indication :DC50[V]
- Others :DC withstand voltage[V]
- AC indicated :AC withstand voltage[V]

- Electrolytic Capacitors

47/50[Example]:Capacitance value[μF]/withstand voltage[V]

- Type

- No indication :Ceramic capacitor
- MY :Mylar capacitor
- MM :Metalized mylar capacitor
- PP :Polypropylene capacitor
- MPP :Metalized polypropylene capacitor
- MF :Metalized film capacitor
- TF :Thin film capacitor
- BP :Bipolar electrolytic capacitor
- TAN :Tantalum capacitor

(3)Coils

- No unit :[μH]
- Others :As specified

(4)Power Supply

- B1
- B2(12V)
- :8V
- :5V

* Respective voltage values are indicated.

(5)Test Point

- : Test point
- : Only test point display

(6)Connecting method

- : Connector
- : Wrapping or soldering
- : Receptacle

(7)Ground symbol

- : LIVE side ground
- : ISOLATED(NEUTRAL) side ground
- : EARTH ground
- : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE



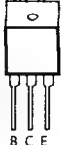




This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⊥) side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

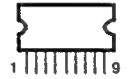
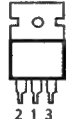
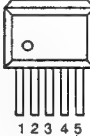
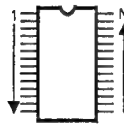
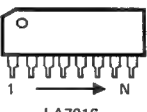
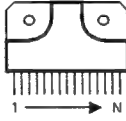
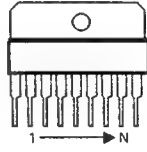
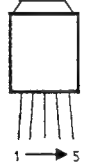
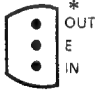
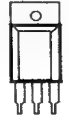
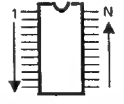
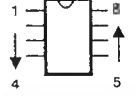
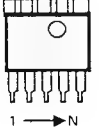
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

1. SEMICONDUCTOR SHAPES (* = Bottom view)

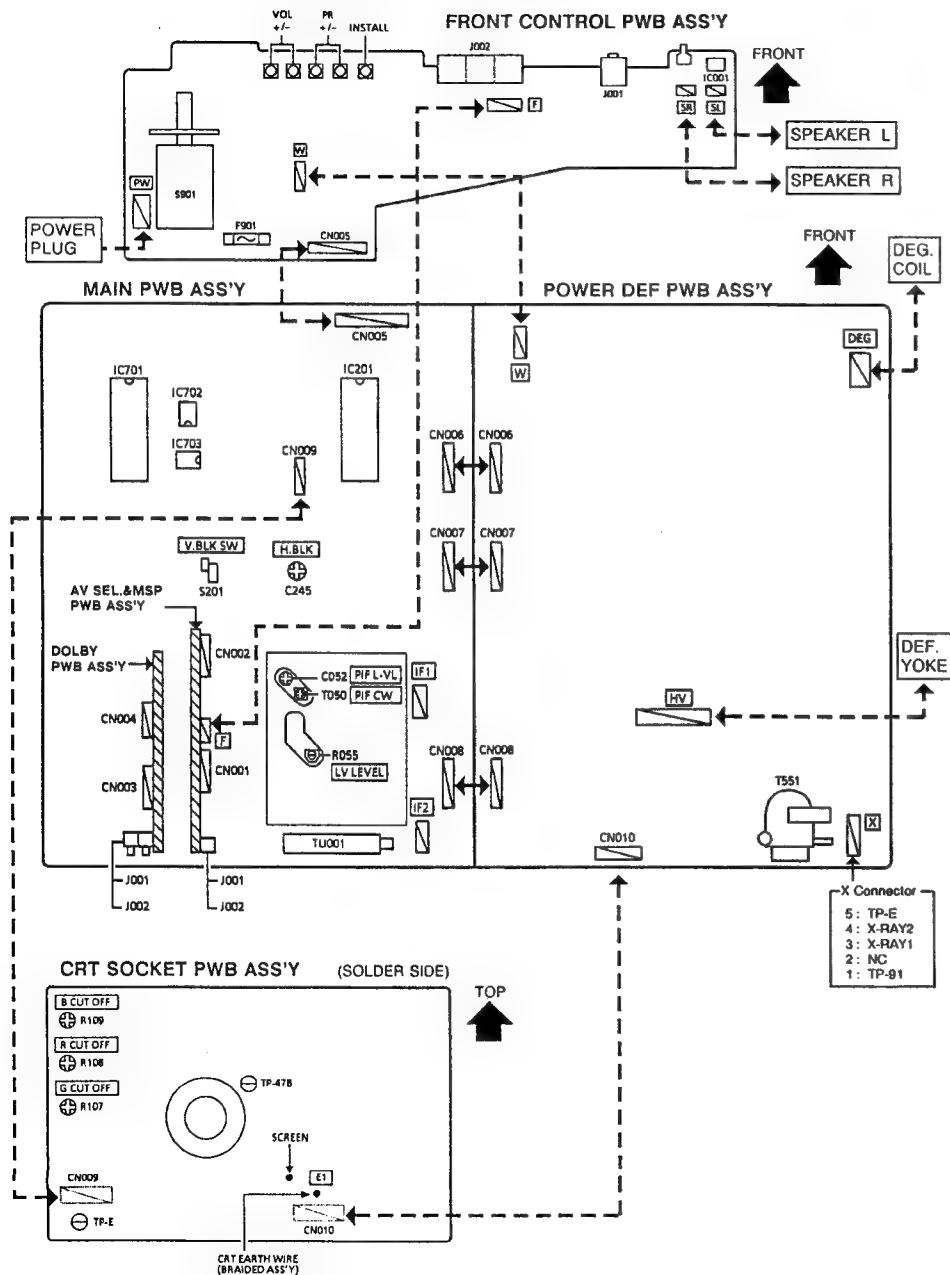
TRANSISTORS

| | | | | | |
|--|--|--|---|---|--|
|  <p>* E C B</p> | <p>2SA1013(O) 2SA673(C) 2SC2240(GB) 2SC1906 2SA966(OY)-T 2SC1815(YG) 2SC2482(C1) 2SC4722(NP) 2PA1015(YG) 2PC1815(YG)</p> |  <p>E C B</p> | <p>2SA933AS(QR) 2SA933S(QR) 2SC1740S(QR) 2SC2785(JH) DTC124ESA-T DTC323TS</p> |  <p>B C E</p> | <p>2SD1054-C1 2SD1878-YD 2SD1876-YD BU2506DX MTA2N60E 2SC4544-C1</p> |
|  <p>E C B</p> |  <p>* S G D</p> <p>2SK301(Q) BSN274</p> |  <p>E C B</p> | <p>2SC2371(MLK) 2SC3271(NP)</p> |  <p>GND IN OUT</p> | <p>DTC144ESA DTA144GS DTC144ES DTA144ES</p> |

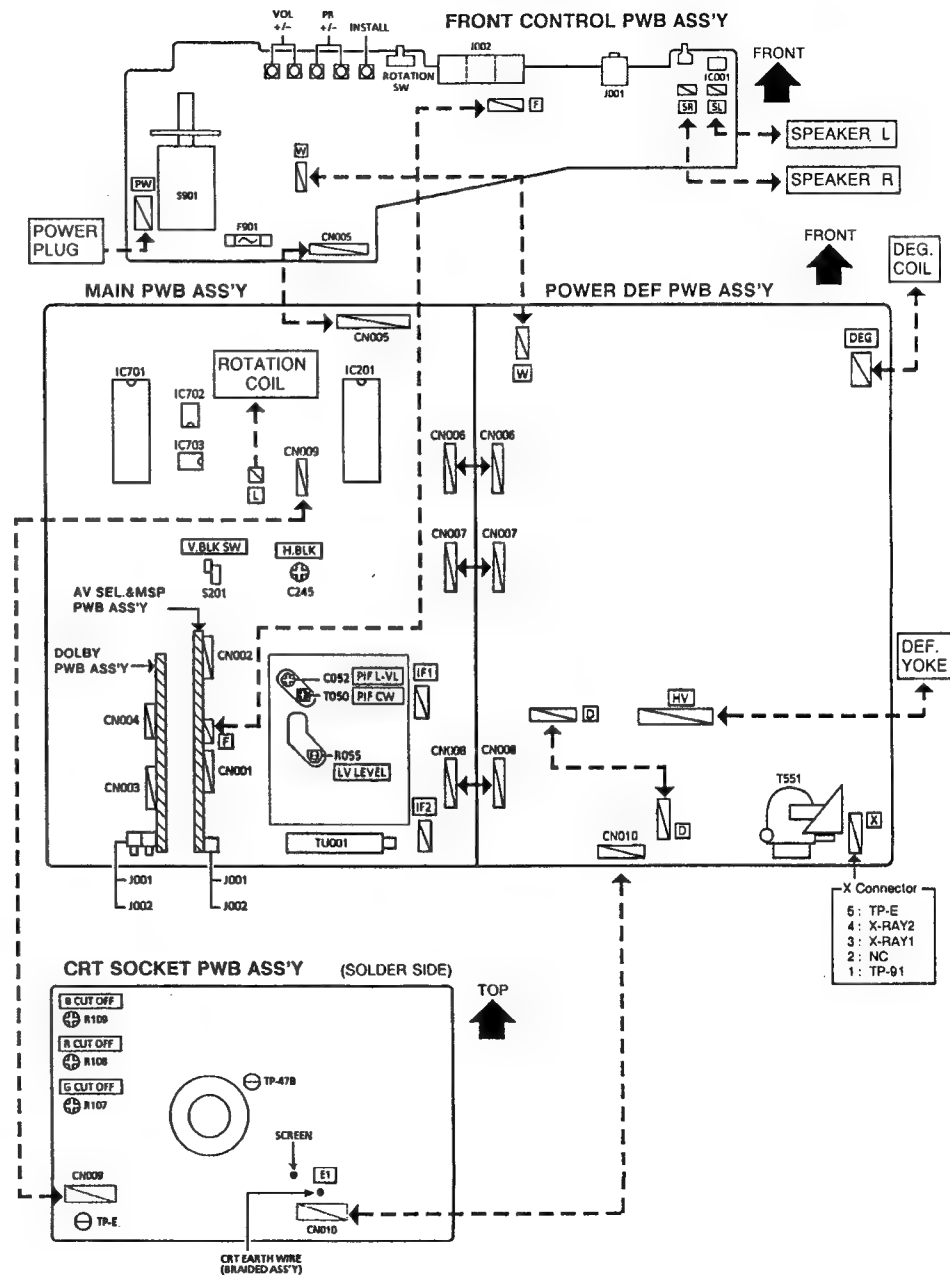
ICs

| | | | |
|--|--|---|---|
|  <p>TDA8351 / N3</p> |  <p>S1854-C1 S1854-C2</p> |  <p>LA7975</p> |  <p>MSP3410-SDIL SAA5281P / E / M3 M37201M6-B44SP P83C654FBP / 541 MN1873237JKH6 M52343SP M37102M8-C41SP</p> |
|  <p>LA7016</p> | | | |
|  <p>LA7838 UPC1488H LA7837 TA8200AH</p> |  <p>AN5265</p> |  <p>L78LR05E-MA</p> |  <p>KIA78L08BP</p> |
|  <p>KIA7805PI AN7805F KIA7808PI AN78N12 AN78M05</p> |  <p>TEA6416 TEA5114A LA7577N M52325P TDA8366 MC44603P U3660M-B BU4066BC TDA4665</p> |  <p>AT24C1628WX1EP AT24C16-10PC ST93C46AB1</p> |  <p>STR-S6707 STR-S6706</p> |

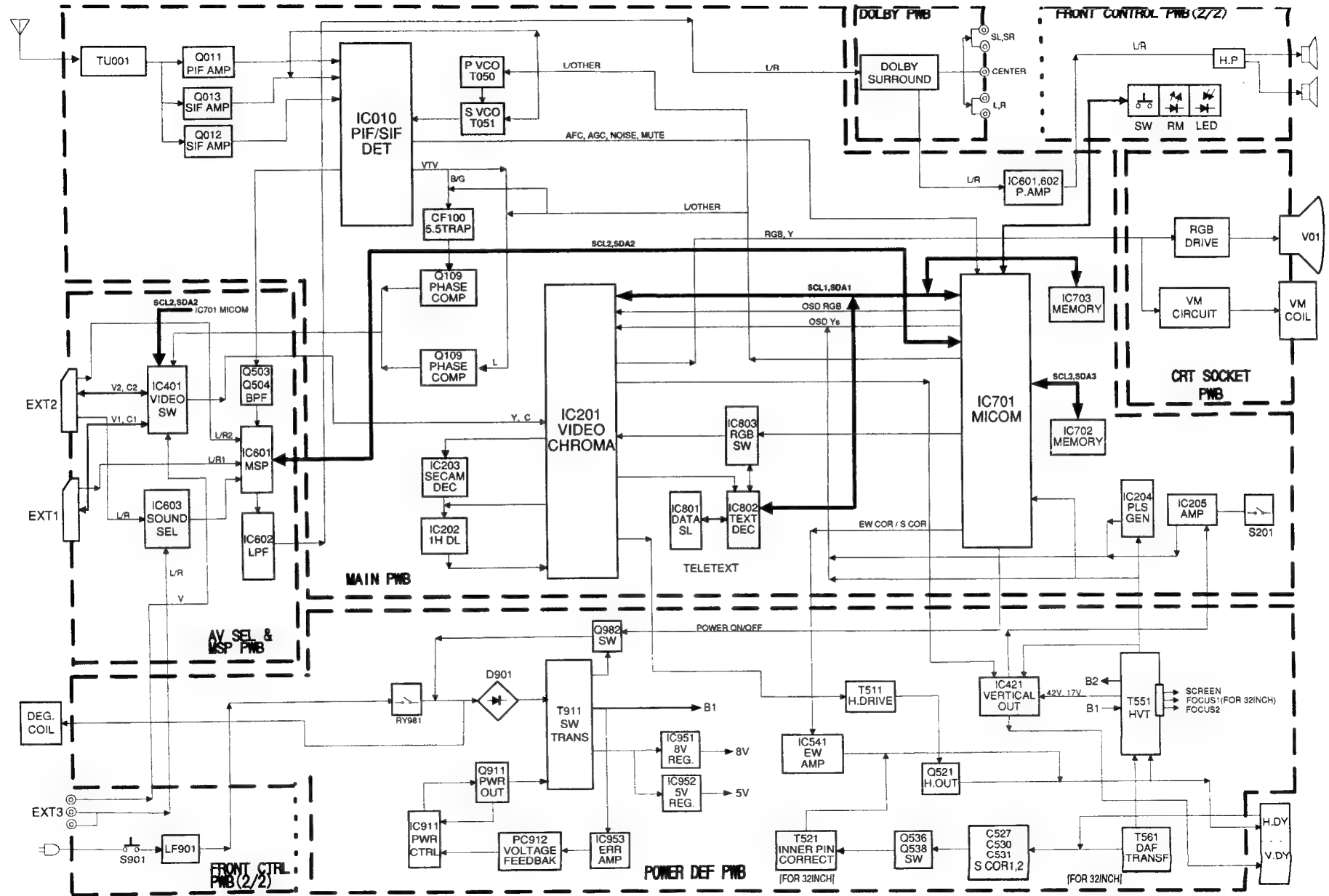
2-1. MAIN PARTS LOCATION AND ALIGNMENTS LOCATION [28INCH]



2-2. MAIN PARTS LOCATION AND ALIGNMENTS LOCATION [32INCH]



3. BLOCK DIAGRAM



VOLTAGE OF AV SEL. & MSP PWB CIRCUIT DIAGRAM

IC401

| | [M] | | [V] |
|----|-----|----|-----|
| 1 | 4.8 | 11 | 4.6 |
| 2 | 5.0 | 12 | 0.8 |
| 3 | 4.8 | 13 | 5.1 |
| 4 | 5.0 | 14 | 5.1 |
| 5 | 4.8 | 15 | 4.3 |
| 6 | 4.8 | 16 | 5.1 |
| 7 | 0 | 17 | 5.4 |
| 8 | 4.8 | 18 | 5.1 |
| 9 | 9.6 | 19 | 0 |
| 10 | 4.2 | 20 | 4.8 |

IC601

| | [M] | | [V] | | [M] | | [V] |
|----|-----|----|-----|----|-----|----|-----|
| 1 | 0.2 | 17 | 1.6 | 33 | 3.7 | 49 | 3.7 |
| 2 | 0 | 18 | 4.2 | 34 | 3.7 | 50 | 0 |
| 3 | 0 | 19 | 0 | 35 | 0 | 51 | 3.7 |
| 4 | 0 | 20 | 1.9 | 36 | 3.7 | 52 | 3.7 |
| 5 | 0 | 21 | 4.7 | 37 | 3.8 | 53 | 3.7 |
| 6 | 0 | 22 | 1.9 | 38 | 7.0 | 54 | 2.6 |
| 7 | 4.2 | 23 | 1.9 | 39 | 8.0 | 55 | 3.7 |
| 8 | 0 | 24 | 5.0 | 40 | 6.2 | 56 | 0 |
| 9 | 3.3 | 25 | 0.1 | 41 | 0 | 57 | 5.0 |
| 10 | 2.7 | 26 | 0.1 | 42 | 3.7 | 58 | 1.5 |
| 11 | 1.7 | 27 | 0 | 43 | 3.7 | 59 | 1.5 |
| 12 | 2.3 | 28 | 1.9 | 44 | 3.7 | 60 | 1.6 |
| 13 | 2.6 | 29 | 1.9 | 45 | 3.7 | 61 | 0 |
| 14 | 2.6 | 30 | 0 | 46 | 3.7 | 62 | 2.5 |
| 15 | 2.7 | 31 | 3.7 | 47 | 3.7 | 63 | 1.7 |
| 16 | 2.5 | 32 | 3.7 | 48 | 0 | 64 | 2.8 |

IC602

| | [V] |
|---|------|
| 1 | 6.1 |
| 2 | 6.1 |
| 3 | 6.1 |
| 4 | 0 |
| 5 | 6.1 |
| 6 | 6.1 |
| 7 | 6.1 |
| 8 | 12.2 |

IC603

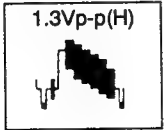
| | [M] | | [V] |
|---|-----|----|------|
| 1 | 6.0 | 9 | 0 |
| 2 | 0 | 10 | 12.2 |
| 3 | 6.0 | 11 | 0 |
| 4 | 0 | 12 | 6.0 |
| 5 | 6.0 | 13 | 6.0 |
| 6 | 0 | 14 | 6.0 |
| 7 | 0 | 15 | 0 |
| 8 | 0 | 16 | 12.3 |

TRANSISTORS [V]

| Q | E | C | B | Q | E | C | B |
|------|-----|------|-----|------|-----|------|-----|
| Q101 | 4.4 | 10.6 | 5.1 | Q401 | 2.2 | 5.0 | 0 |
| Q102 | 3.6 | 12.2 | 4.2 | Q402 | 5.0 | 1.5 | 0 |
| Q103 | 0 | 0.2 | 0 | Q403 | 4.4 | 12.3 | 5.1 |
| Q104 | 0 | 0.2 | 0 | Q503 | 4.7 | 12.2 | 5.4 |
| Q105 | 3.9 | 0 | 3.2 | Q504 | 2.5 | 5.4 | 0.1 |
| Q201 | 3.1 | 9.9 | 3.8 | Q601 | 0 | 12.2 | 0 |
| Q202 | 5.7 | 3.8 | 5.0 | Q602 | 0 | 0 | 0 |
| Q203 | 0 | 0 | 0 | Q603 | 0 | 0.7 | 0 |
| Q204 | 0 | 0 | 0 | | | | |

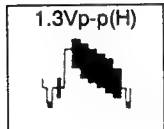
[28"]

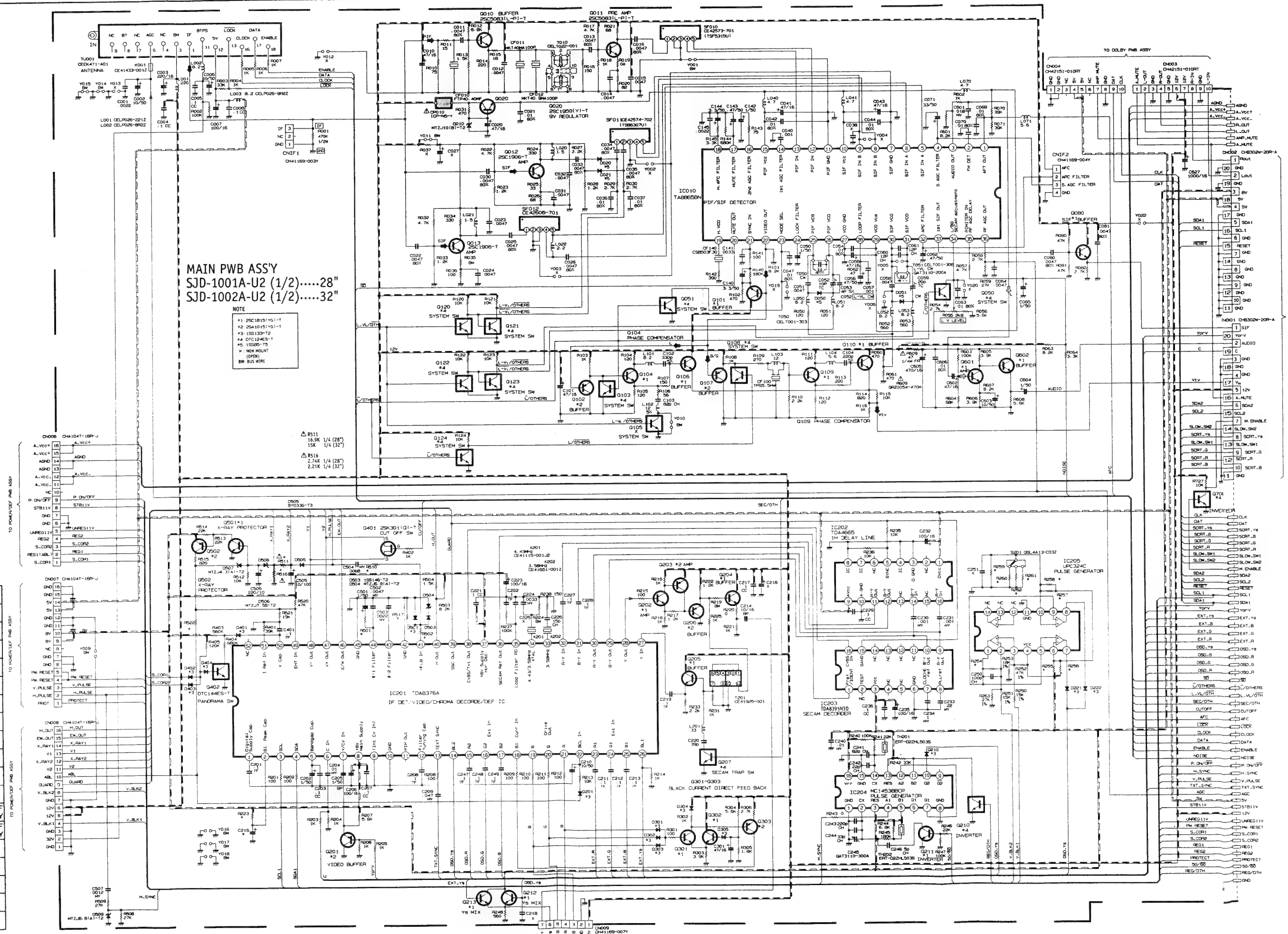
IC401 ⑪ (TP-12)



[32"]

IC401 ⑪ (TP-12)





DIFFERENCES LIST

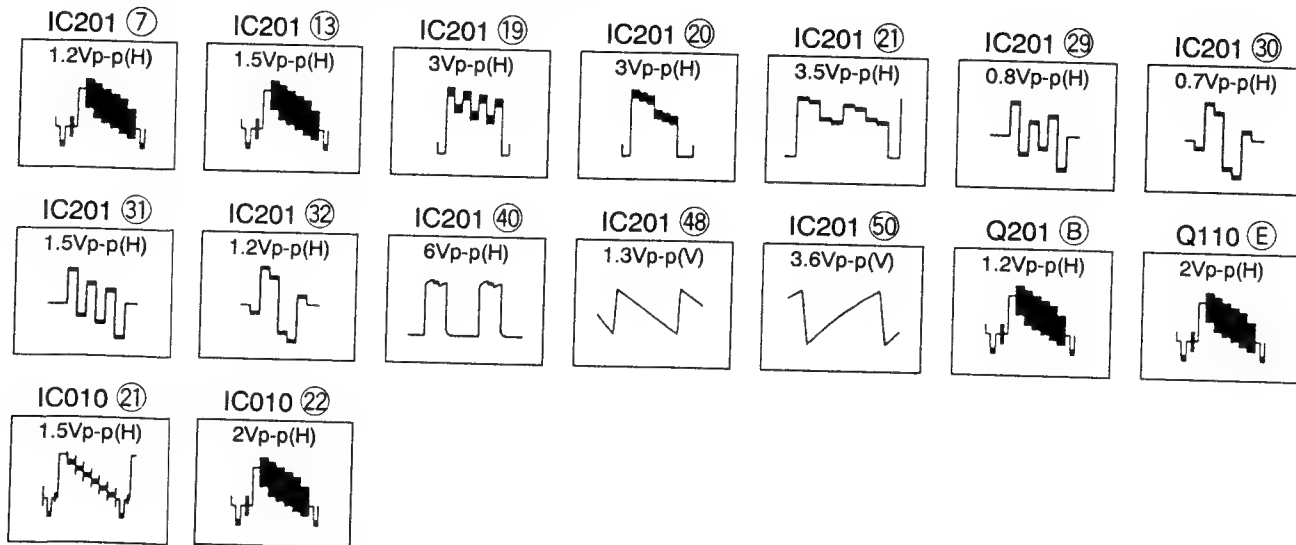
| * \ | SJD-1001A-U2 | SJD-1002A-U2 |
|------|--------------------|--------------------|
| R254 | 39K | 47K |
| R255 | 2. 7K | 2. 7K |
| R256 | 27K | 27K |
| R257 | 5. 6K | 8. 2K |
| R258 | X | 47K |
| R259 | 2. 2K | 3. 3K |
| R260 | X | 27K |
| R261 | 12K | 5. 6K |
| R262 | 22K | 12K |
| R501 | 10K | 15K |
| R510 | 3. 9K | 10K |
| R511 | QRV141F -1692AY | QRV141F -1502AY |
| R516 | QRV141F -2741AY | QRV141F -2211AY |
| R517 | 2. 2K | 8. 2K |
| R522 | 1. 8M | 1M |
| R223 | X | 1M |
| C215 | 0 | 1/50 |
| R502 | 10K | 22K |

VOLTAGE OF MAIN PWB CIRCUIT DIAGRAM (1/2)

| IC010 | | | | IC201 | | | | IC202 | | | | IC203 | | | | IC204 | | | | IC205 | | | |
|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|
| [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] |
| 1 | 3.1 | 19 | 6.0 | 1 | 1.9 | 14 | 0.7 | 1 | 4.9 | 1 | 1.5 | 1 | 1.5 | 1 | 0 | 1 | 0 | 1 | 3.9 | 1 | 3.9 | 1 | 3.9 |
| 2 | 2.7 | 20 | 0 | 2 | 4.0 | 15 | 3.4 | 2 | 0.2 | 2 | 1.2 | 2 | 1.2 | 2 | 2.8 | 2 | 2.8 | 2 | 5.1 | 2 | 5.1 | 2 | 5.1 |
| 3 | 4.1 | 21 | 7.5 | 3 | 3.3 | 16 | 3.4 | 3 | 0 | 3 | 7.9 | 3 | 7.9 | 3 | 7.9 | 3 | 7.9 | 3 | 5.1 | 3 | 5.1 | 3 | 5.1 |
| 4 | 6.9 | 22 | 3.3 | 4 | 2.9 | 17 | 3.4 | 4 | 0 | 4 | 0.2 | 4 | 0.2 | 4 | 0.3 | 4 | 0.3 | 4 | 7.9 | 4 | 7.9 | 4 | 7.9 |
| 5 | 0 | 23 | 1.7 | 5 | 6.6 | 18 | 7.0 | 5 | 0.3 | 5 | 0.2 | 5 | 0.2 | 5 | 8.0 | 5 | 8.0 | 5 | 3.9 | 5 | 3.9 | 5 | 3.9 |
| 6 | 0 | 24 | 2.1 | 6 | 3.9 | 19 | 3.3 | 6 | 0.1 | 6 | 0 | 6 | 0 | 6 | 7.3 | 6 | 7.3 | 6 | 5.9 | 6 | 5.9 | 6 | 5.9 |
| 7 | 0.2 | 25 | 7.7 | 7 | 3.7 | 20 | 3.3 | 7 | 3.9 | 7 | 3.3 | 7 | 3.3 | 7 | 0.5 | 7 | 0.5 | 7 | 0.4 | 7 | 0.4 | 7 | 0.4 |
| 8 | 2.0 | 26 | 7.7 | 8 | 8.0 | 21 | 3.4 | 8 | 0 | 8 | 4.2 | 8 | 4.2 | 8 | 0 | 8 | 0 | 8 | 0 | 8 | 0 | 8 | 0 |
| 9 | 9.0 | 27 | 0 | 9 | 0 | 22 | 4.6 | 9 | 4.9 | 9 | 1.6 | 9 | 1.6 | 9 | 7.9 | 9 | 7.9 | 9 | 3.9 | 9 | 3.9 | 9 | 3.9 |
| 10 | 0 | 28 | 4.4 | 10 | 0 | 23 | 3.4 | 10 | 0 | 10 | 1.7 | 10 | 1.7 | 10 | 0 | 10 | 0 | 10 | 1.6 | 10 | 1.6 | 10 | 1.6 |
| 11 | 1.9 | 29 | 9.0 | 11 | 0 | 24 | 3.4 | 11 | 2.9 | 11 | 0.1 | 11 | 0.1 | 11 | 0 | 11 | 0 | 11 | 0 | 11 | 0 | 11 | 0 |
| 12 | 1.9 | 30 | 7.8 | 12 | 3.7 | 25 | 3.4 | 12 | 2.9 | 12 | 0.1 | 12 | 0.1 | 12 | 0.6 | 12 | 0.6 | 12 | 1.8 | 12 | 1.8 | 12 | 1.8 |
| 13 | 1.9 | 31 | 7.8 | 13 | 4.0 | 26 | 0.2 | 13 | 0 | 13 | 0.1 | 13 | 0.1 | 13 | 7.9 | 13 | 7.9 | 13 | 1.8 | 13 | 1.8 | 13 | 1.8 |
| 14 | 4.3 | 32 | 4.7 | 14 | 0 | 27 | 0.2 | 14 | 0.9 | 14 | 0.1 | 14 | 0.1 | 14 | 7.8 | 14 | 7.8 | 14 | 0 | 14 | 0 | 14 | 0 |
| 15 | 9.0 | 33 | 5.4 | 15 | 0 | 28 | 0.2 | 15 | 0.1 | 15 | 0.6 | 15 | 0.6 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 |
| 16 | 4.2 | 34 | 6.0 | 16 | 0 | 29 | 0.2 | 16 | 0.9 | 16 | 3.1 | 16 | 3.1 | 16 | 7.9 | 16 | 7.9 | 16 | 0 | 16 | 0 | 16 | 0 |
| 17 | 8.5 | 35 | 5.0 | 17 | 0 | 30 | 0.2 | 17 | 0.9 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 |
| 18 | 7.6 | 36 | 5.0 | 18 | 0 | 31 | 0.2 | 18 | 0.9 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 |

TRANSISTORS [V]

| Q | E | C | B | Q | E | C | B | Q | E | C | B |
|------|-----|------|-----|------|------|------|------|------|-----|------|------|
| Q010 | 1.3 | 12.2 | 2.0 | Q120 | 0 | 0 | 3.6 | Q401 | 2.2 | 2.2 | 0.1 |
| Q011 | 1.2 | 11.1 | 2.0 | Q121 | 0 | 7 | 0 | Q402 | 0 | 12.2 | 12.2 |
| Q012 | 1.7 | 12.8 | 2.4 | Q122 | 0 | 0.1 | 3.6 | | | | |
| Q013 | 1.7 | 11.2 | 2.4 | Q123 | 0 | 12.2 | 0.1 | Q501 | 0 | 7.8 | 0.2 |
| Q020 | 9.0 | 12.2 | 9.7 | Q124 | 0 | 8.7 | 0.1 | Q502 | 7.9 | 1.9 | 7.9 |
| Q050 | 0 | 6.0 | 0.1 | | | | | Q601 | 4.0 | 8.0 | 4.6 |
| Q051 | 0 | 1.7 | 0.1 | Q201 | 2.9 | 0 | 2.2 | Q602 | 7.4 | 12.1 | 8.0 |
| Q080 | 5.2 | 12.2 | 5.8 | Q202 | 2.1 | 11.6 | 2.6 | | | | |
| | | | | Q203 | 12.2 | 3.7 | 11.6 | Q706 | 0 | 0 | 3.7 |
| Q101 | 2.6 | 12.2 | 3.3 | Q204 | 3.7 | 12.2 | 4.4 | | | | |
| Q102 | 3.9 | 0 | 3.3 | Q205 | 1.5 | 12.2 | 2.1 | | | | |
| Q103 | 0 | 4.0 | 0.1 | Q206 | 4.4 | 0 | 3.7 | | | | |
| Q104 | 3.3 | 8.9 | 3.9 | Q207 | 0 | 3.0 | 0.1 | | | | |
| Q106 | 2.6 | 12.2 | 3.3 | Q210 | 0 | 0 | 5.0 | | | | |
| Q107 | 0.1 | 0 | 3.3 | Q211 | 0 | 0 | 0.6 | | | | |
| Q108 | 0 | 0.1 | 8.7 | Q301 | 3.1 | 11.1 | 3.7 | | | | |
| Q109 | 0 | 12.2 | 0.1 | Q302 | 3.1 | 12.2 | 3.2 | | | | |
| Q110 | 2.6 | 12.2 | 0 | Q303 | 11.6 | 7.0 | 11.1 | | | | |



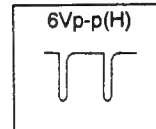
VOLTAGE OF MAIN PWB CIRCUIT DIAGRAM (2/2)

| IC601 | | | | IC701 | | | | IC702 | | | | IC704 | | | | IC802 | | | | IC803 | | | |
|-------|------|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|------|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|
| [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] | [V] |
| 1 | 0 | 1 | 4.1 | 1 | 4.1 | 17 | 0.2 | 1 | 0 | 1 | 0 | 1 | 12.8 | 1 | 0.4 | 1 | 4.9 | 15 | 0.2 | 1 | 0.4 | 1 | 0.4 |
| 2 | 19.2 | 2 | 4.8 | 2 | 4.8 | 18 | 5.0 | 2 | 0 | 2 | 0 | 2 | 5.8 | 2 | 2.2 | 2 | 3.0 | 16 | 5.0 | 2 | 2.2 | 2 | 2.2 |
| 3 | 0 | 3 | 5.0 | 3 | 5.0 | 19 | 4.9 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0.8 | 3 | 3.0 | 17 | 3.2 | 3 | 0.8 | 3 | 0.8 |
| 4 | 0 | 4 | 0 | 4 | 0 | 20 | 0.2 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 2.2 | 4 | 5.0 | 18 | 2.6 | 4 | 2.2 | 4 | 2.2 |
| 5 | 0 | 5 | 0.1 | 5 | 0.1 | 21 | 0.1 | 5 | 5.0 | 5 | 5.0 | 5 | 5.0 | 5 | 2.2 | 5 | 5.0 | 19 | 0 | 5 | 2.2 | 5 | 2.2 |
| 6 | 0 | 6 | 5.0 | 6 | 5.0 | 22 | 0.1 | 6 | 5.0 | 6 | 5.0 | 6 | 5.0 | 6 | 0 | 6 | 0.2 | 20 | 0 | 6 | 0 | 6 | 0 |
| 7 | 0 | 7 | 2.2 | 7 | 2.2 | 23 | 0.7 | 7 | 1.8 | 7 | 1.8 | 7 | 1.8 | 7 | 0 | 7 | 0 | 21 | 5.0 | 7 | 0 | 7 | 0 |
| | | 8 | 0.1 | 8 | 0.1 | 24 | 5.0 | 8 | 5.0 | 8 | 5.0 | 8 | 5.0 | 8 | 0 | 8 | 0 | 22 | 0 | 8 | 0 | 8 | 0 |
| | | 9 | 1.3 | 9 | 1.3 | 25 | 0.1 | 9 | 5.0 | 9 | 5.0 | 9 | 5.0 | 9 | 0 | 9 | 5.0 | 23 | 0 | 9 | 0 | 9 | 0 |
| | | 10 | 0.1 | 10 | 0.1 | 26 | 0.1 | 10 | 5.0 | 10 | 5.0 | 10 | 5.0 | 10 | 0 | 10 | 0 | 24 | 0 | 10 | 0 | 10 | 0 |
| | | 11 | 0.2 | 11 | 0.2 | 27 | 0.1 | 11 | 5.0 | 11 | 5.0 | 11 | 5.0 | 11 | 0 | 11 | 0 | 25 | 1.3 | 11 | 0 | 11 | 0 |
| | | 12 | 3.7 | 12 | 3.7 | 28 | 0 | 12 | 5.0 | 12 | 5.0 | 12 | 5.0 | 12 | 0 | 12 | 4.5 | 26 | 1.3 | 12 | 0 | 12 | 0 |
| | | 13 | 0.1 | 13 | 0.1 | 29 | 0 | 13 | 5.0 | 13 | 5.0 | 13 | 5.0 | 13 | 0 | 13 | 0 | 27 | 0 | 13 | 0 | 13 | 0 |
| | | 14 | 3.6 | 14 | 3.6 | 30 | 2.2 | 14 | 5.0 | 14 | 5.0 | 14 | 5.0 | 14 | 0 | 14 | 0 | 28 | 2.5 | 14 | 0 | 14 | 0 |
| | | 15 | 5.0 | 15 | 5.0 | 31 | 2.2 | 15 | 5.0 | 15 | 5.0 | 15 | 5.0 | 15 | 0 | 15 | 2.2 | | | 15 | 0 | 15 | 0 |
| | | 16 | 0.2 | 16 | 0.2 | 32 | 0 | 16 | 5.0 | 16 | 5.0 | 16 | 5.0 | 16 | 0 | 16 | 5.0 | | | 16 | 0 | 16 | 0 |

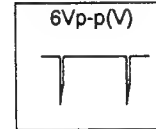
TRANSISTORS [V]

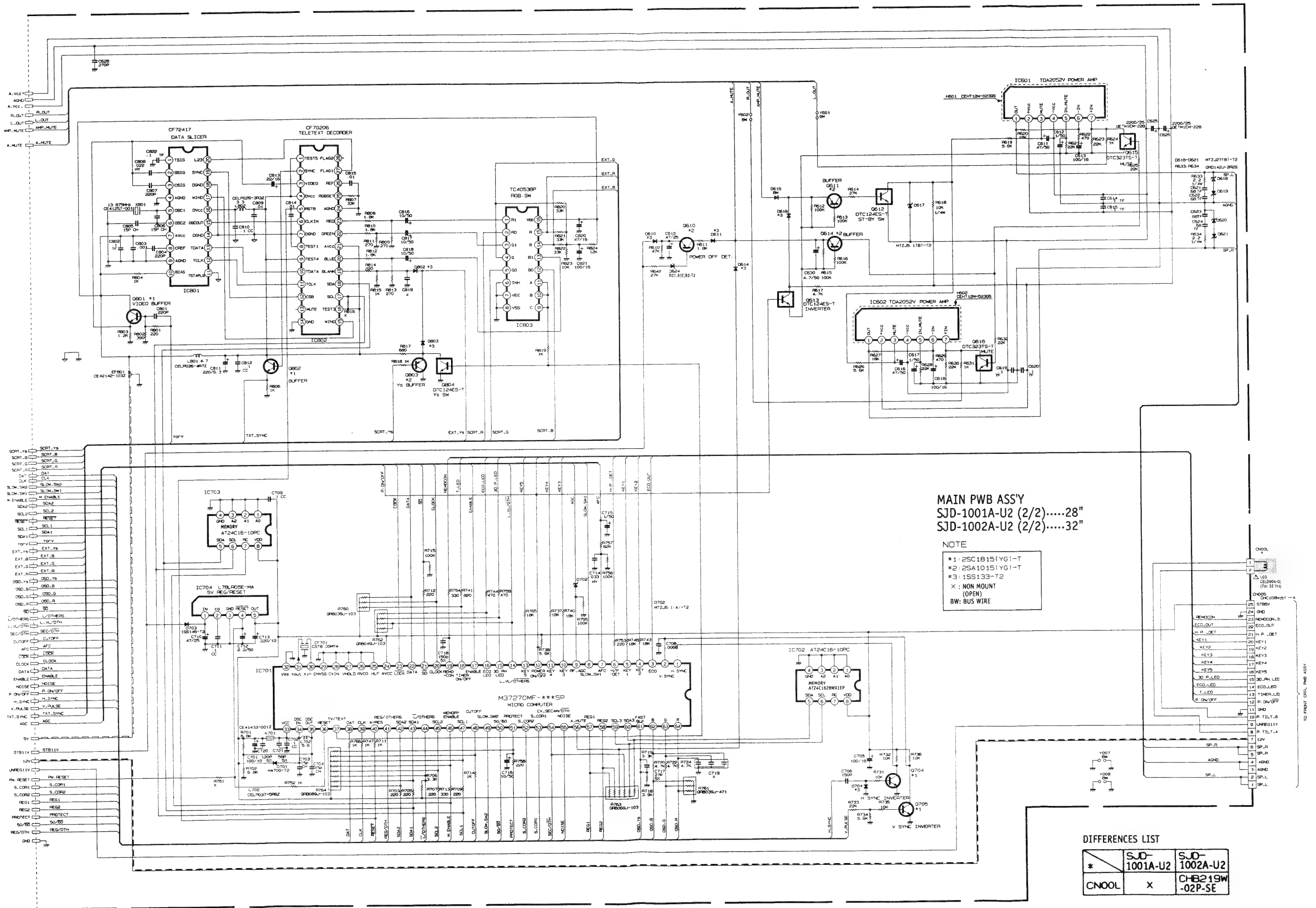
| Q | E | C | B | Q | E | C | B |
|------|------|---|------|------|-----|-----|-----|
| Q610 | 13.2 | 0 | 13.6 | Q704 | 0 | 4.1 | 0 |
| Q611 | 0.1 | 0 | 0 | Q705 | 0 | 4.8 | 0 |
| Q612 | 0 | 0 | 0 | | | | |
| Q613 | 0 | 0 | 3.7 | Q801 | 2.2 | 4.9 | 2.8 |
| Q614 | 0 | 0 | 0 | Q802 | 2.4 | 5.0 | 3.0 |
| Q615 | 0 | 0 | 0 | Q803 | 0.6 | 0 | 0 |
| Q616 | 0 | 0 | 0 | Q804 | 0 | 0.6 | 0.1 |

Q704 (C)

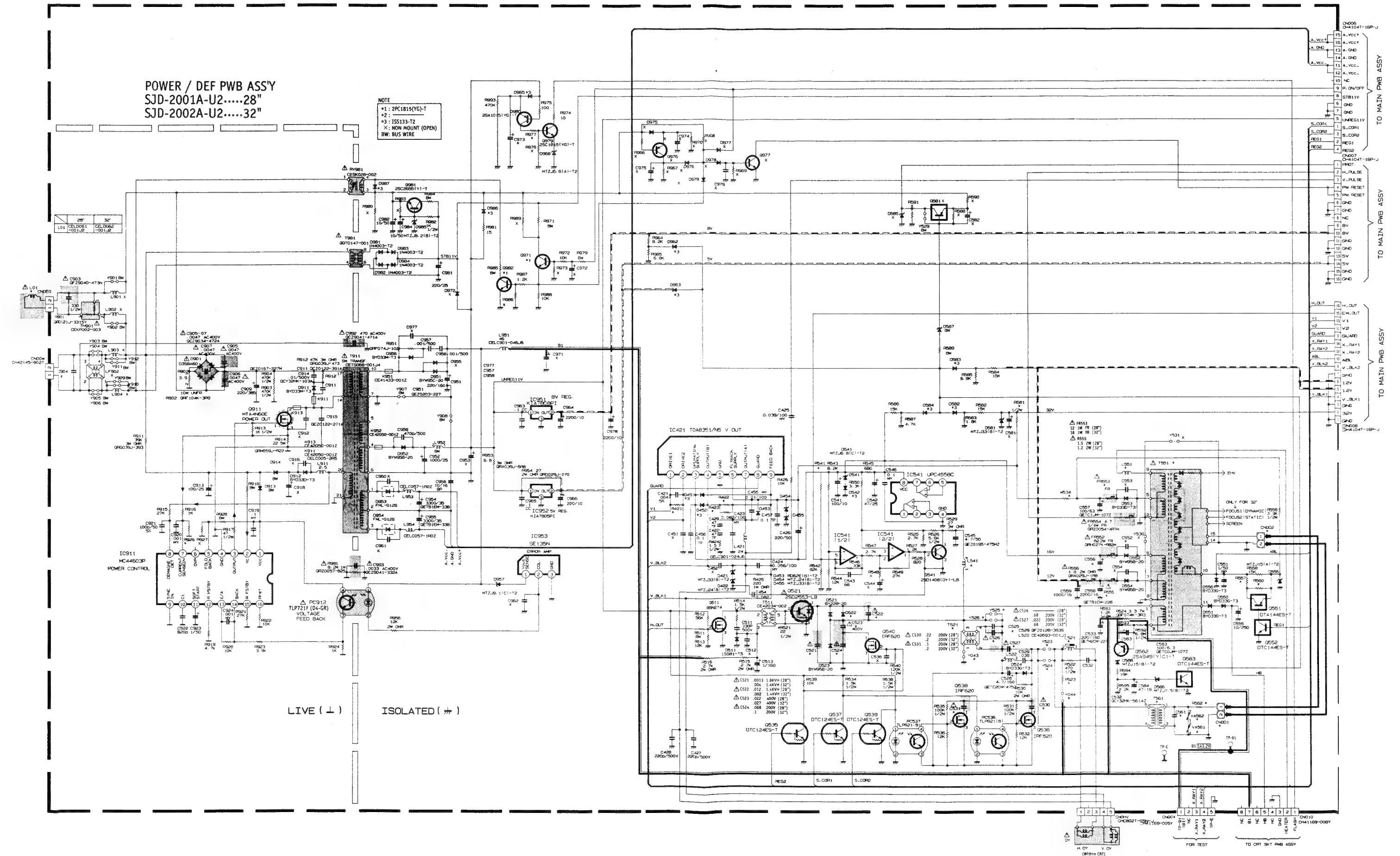


Q705 (C)





Refer to the following PWB pattern. : POWER / DEF PWB PATTERN page 3-31~3-34.



VOLTAGE OF POWER/DEF PWB CIRCUIT DIAGRAM

IC421

| | [V] |
|---|------|
| 1 | 2.2 |
| 2 | 2.2 |
| 3 | 17.7 |
| 4 | 8.4 |
| 5 | 0 |
| 6 | 45.2 |
| 7 | 8.5 |
| 8 | 0.6 |
| 9 | 8.4 |

IC541

| | [V] |
|---|------|
| 1 | 1.9 |
| 2 | 6.2 |
| 3 | 6.2 |
| 4 | 0 |
| 5 | 4.5 |
| 6 | 4.5 |
| 7 | 6.7 |
| 8 | 17.7 |

IC911

| | [V] | | [V] |
|---|------|----|-----|
| 1 | 14.8 | 9 | 0 |
| 2 | 14.8 | 10 | 2.6 |
| 3 | 2.4 | 11 | 2.4 |
| 4 | 0 | 12 | 0.4 |
| 5 | 14.8 | 13 | 2.5 |
| 6 | 2.1 | 14 | 2.5 |
| 7 | 0.1 | 15 | 2.5 |
| 8 | 0.2 | 16 | 2.5 |

REGULATORS

| IC951 | |
|-------|------|
| | [V] |
| 1 | 10.5 |
| 2 | 8.0 |
| 3 | 0 |

| IC952 | |
|-------|-----|
| | [V] |
| 1 | 8.0 |
| 2 | 5.0 |
| 3 | 0 |

| IC953 | |
|-------|-----|
| | [V] |
| 1 | 136 |
| 2 | 122 |
| 3 | 0 |

PC

| PC536 | |
|-------|------|
| | [V] |
| 1 | 1.0 |
| 2 | 0 |
| 3 | 20.0 |
| 4 | 19.6 |

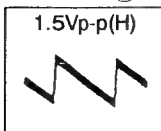
| PC537 | |
|-------|------|
| | [V] |
| 1 | 1.0 |
| 2 | 0 |
| 3 | 20.0 |
| 4 | 20.0 |

| PC912 | |
|-------|------|
| | [V] |
| 1 | 145 |
| 2 | 144 |
| 3 | 2.5 |
| 4 | 14.8 |

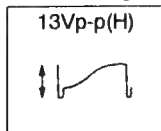
TRANSISTORS [V]

| Q | E | C | B | Q | E | C | B | Q | E | C | B |
|------|------|-------|------|------|------|------|-----|------|------|------|------|
| Q511 | 0 | 57.8 | 2.5 | Q541 | 0 | 17.1 | 0.5 | Q977 | 0 | 1.3 | 0 |
| Q521 | 0 | - | 0 | Q551 | 14.1 | 14.1 | 0 | Q978 | 0 | 0 | 1.3 |
| Q535 | 0.1 | 9.7 | 0 | Q552 | 0 | 0 | 4.2 | Q979 | 1.3 | 12.8 | 0 |
| Q536 | 20.0 | 11.4 | 19.6 | Q582 | 145 | 5.0 | 145 | Q980 | 10.2 | 0 | 10.5 |
| Q537 | 0 | 1.0 | 0.1 | Q583 | 0 | 4 | 0 | Q981 | 8.9 | 13.6 | 8.0 |
| Q538 | 20 | 113.5 | 19.5 | Q911 | 0 | 29.3 | 2.1 | Q982 | 0 | 0.3 | 0.7 |
| Q539 | 0 | 1.0 | 0.1 | Q971 | 2.5 | 13.6 | 3.1 | | | | |
| Q540 | 0 | 0 | 9.7 | Q976 | 0 | 0 | 0 | | | | |

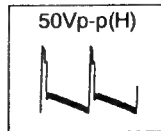
IC421 ①



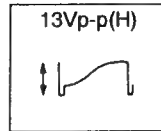
IC421 ④



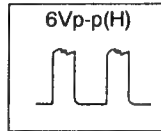
IC421 ⑦



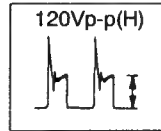
IC421 ⑨



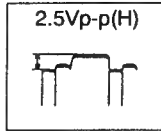
Q511 ⑥



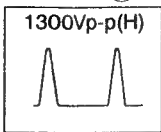
Q511 ⑩



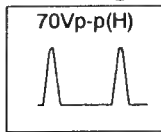
Q521 ③



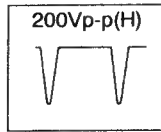
Q521 ③



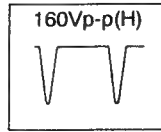
T551 ⑤



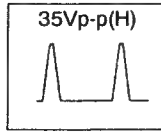
T551 ⑥



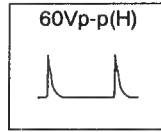
T551 ⑦



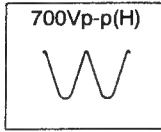
T551 ⑨



T551 ⑪



T551 ⑮



DIFFERENCES LIST

| * | SJD-2001A -U2(28*) | SJD-2002A -U2(32*) |
|--------|-----------------------|-----------------------|
| R421 | QFV141F -2701AY | QFV141F -2201AY |
| R422 | 1.5 1/2W | 1.0 1/2W |
| R423 | 1.5 1/2W | 1.0 1/2W |
| △ C521 | QFZ0122 -132S | QFZ0117 -4001S |
| △ C522 | QFZ0117 -1202S | QFZ0117 -1002S |
| △ C524 | QFM720K -683M | QFM720K -104M |
| C525 | X | X |
| △ C526 | X | QFZ0119 -684S |
| △ C527 | QFZ0119 -354S | QFZ0119 -684S |
| △ C530 | QFZ0119 -224S | QFZ0119 -204S |

| * | SJD-2001A -U2(28*) | SJD-2002A -U2(32*) |
|--------|-----------------------|-----------------------|
| R541 | 18K | 15K |
| L521 | CELL011 -002J1 | CELL012 -002J2 |
| T521 | X | CE42549 -001J1 |
| △ T551 | CE42549 -00AJ1 | CE42549 -00AJ1 |
| T561 | X | CE42692 -001J1 |
| L551 | CEL C901 -038J6 | CEL C901 -076J6 |
| Y523 | BW | X |
| Y524 | BW | X |
| Y525 | BW | X |
| Y526 | BW | X |

| * | SJD-2001A -U2(28*) | SJD-2002A -U2(32*) |
|--------|-----------------------|-----------------------|
| L541 | CE42691 -001J1 | CE42567 -001J1 |
| △ C523 | QFP326J -223M | QFP326J -273M |
| △ C531 | QFZ0119 -104S | QFZ0119 -204S |
| C561 | X | QCZ0122 -102A |
| R562 | X | QRC122K -103 |
| Y043 | X | BW |
| Y044 | X | X |
| VA561 | X | ERZV100 112-C1 |
| D522 | BY22B -20 | X |
| C556 | QETN1EM -108Z | QETB1EM -338 |

| * | SJD-2001A -U2(28*) | SJD-2002A -U2(32*) |
|---------|-----------------------|-----------------------|
| R926 | 6.8K | 10K |
| R581 | QF0121J -122SY | QF0121J -182SY |
| △ R555 | QF0129J -1R5 | QF0129J -1R2 |
| CN000 | X | CHG001 -0F-N |
| △ FR553 | QF0117J -120M | QF0117J -180M |
| C973 | 10/16 | 4.7/50 |
| R977 | 6.8K | 5.6K |
| R557 | 18K | 15K |
| R560 | 33K | 15K |
| VA562 | X | BW |

| * | SJD-2001A -U2(28*) | SJD-2002A -U2(32*) |
|-------|-----------------------|-----------------------|
| C552 | QCY324K -B21AZ | X |
| W534 | QF0121J -180SY | BW |
| VA561 | — | ERZ V10V112C1 |

VOLTAGE OF FRONT CONTROL PWB CIRCUIT DIAGRAM

IC001

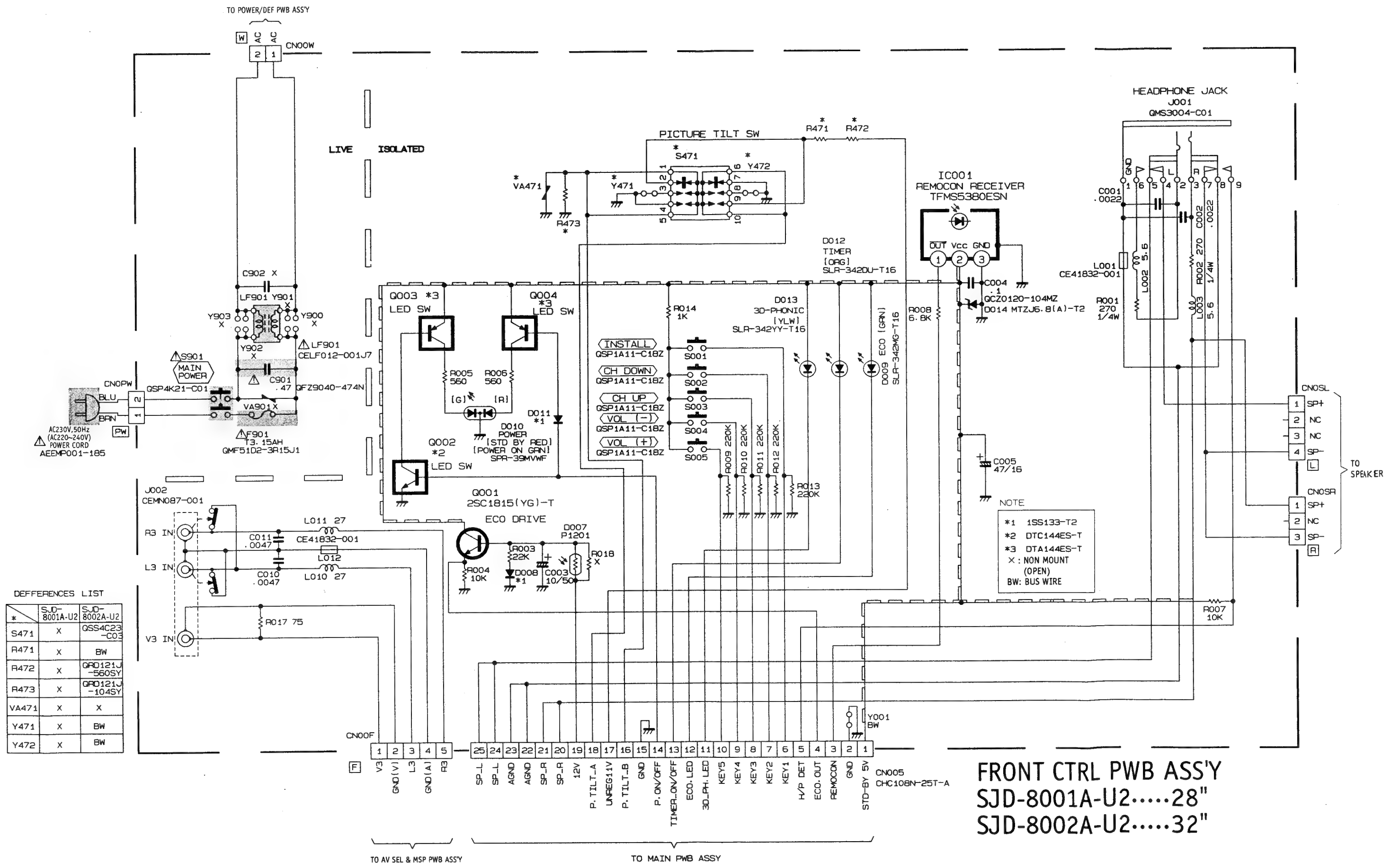
| | [V] |
|---|-----|
| 1 | 4.9 |
| 2 | 5.0 |
| 3 | 0 |

TRANSISTORS [V]

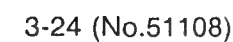
| Q | E | C | B |
|------|-----|-----|-----|
| Q001 | 5.0 | 5.5 | 5.0 |
| Q002 | 0 | 3.7 | 0 |
| Q003 | 5.0 | 4.9 | 0 |
| Q004 | 5.0 | 0 | 4.0 |

FRONT CONTROL PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern. : FRONT CONTROL PWB PATTERN page 3-42.



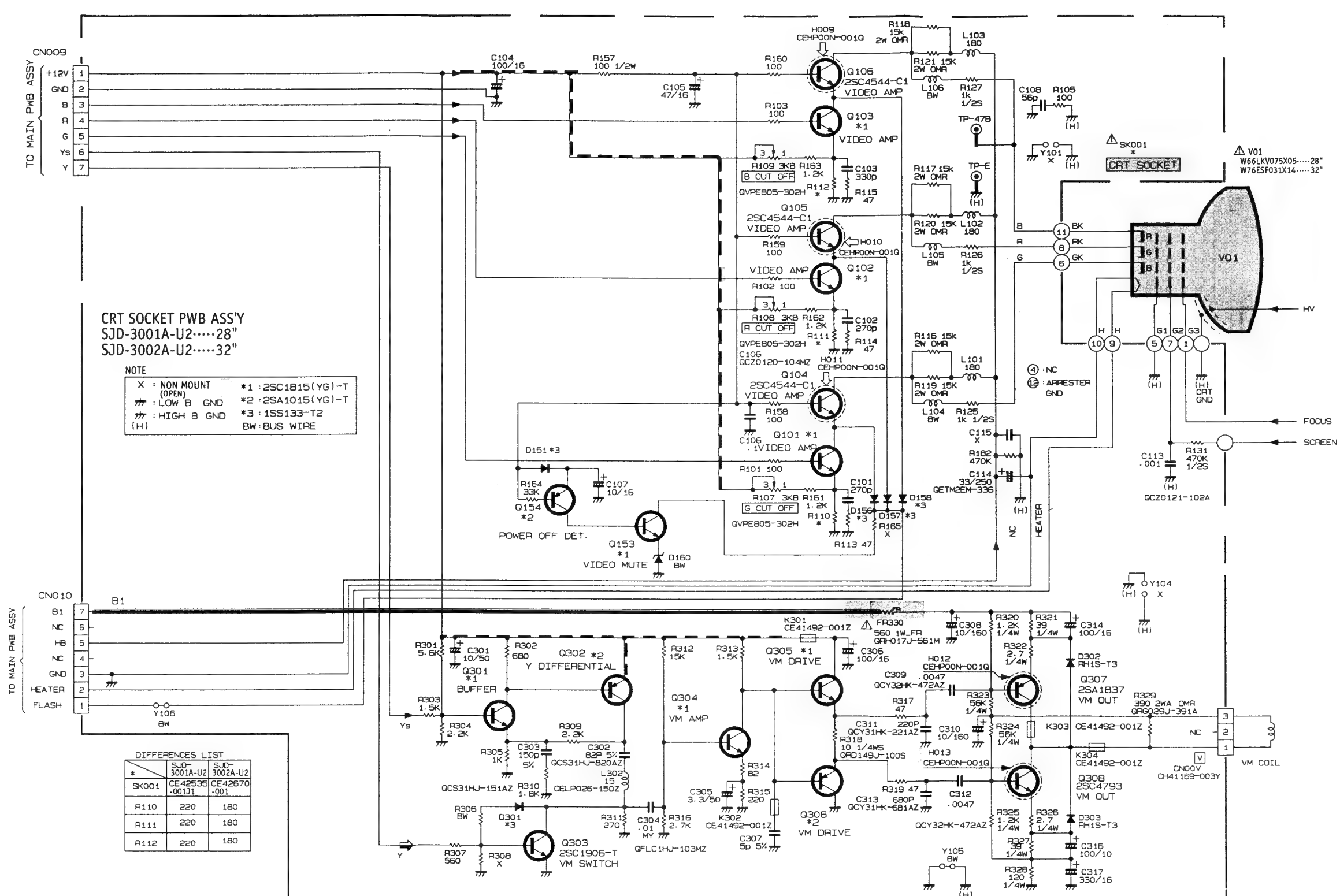
Refer to the following PWB pattern. : DOLBY PWB PATTERN page 3-39~3-40.





CRT SOCKET PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern. : CRT SOCKET PWB PATTERN page 3-41.



[28"]

[32"]

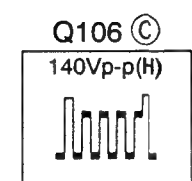
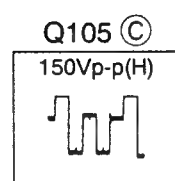
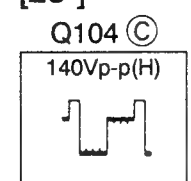
TRANSISTORS [V]

| TR | E | C | B |
|------|------|------|------|
| Q101 | 2.5 | 11.7 | 3.1 |
| Q102 | 12.6 | 11.8 | 3.2 |
| Q103 | 2.5 | 11.7 | 3.2 |
| Q104 | 11.7 | 140 | 12.2 |
| Q105 | 11.8 | 141 | 12.3 |
| Q106 | 11.7 | 134 | 12.3 |
| Q301 | 2.7 | 11.6 | 3.3 |
| Q302 | 6.5 | 12.3 | 11.6 |
| Q303 | 0 | 0 | 0 |
| Q304 | 1.1 | 6.6 | 1.8 |
| Q305 | 6.5 | 12.3 | 6.6 |
| Q306 | 6.5 | 0 | 6.6 |
| Q307 | 133 | 69.7 | 132 |
| Q308 | 3.0 | 69.7 | 3.5 |
| Q153 | 0 | 0 | 0 |
| Q154 | 12.4 | 0 | 12.2 |

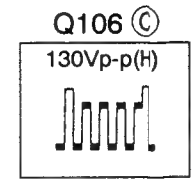
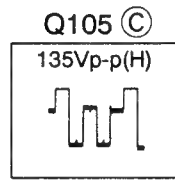
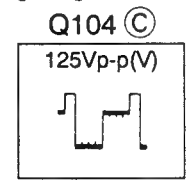
TRANSISTORS [V]

| TR | E | C | B |
|------|------|------|------|
| Q101 | 2.5 | 11.7 | 3.1 |
| Q102 | 12.6 | 11.8 | 3.2 |
| Q103 | 2.5 | 11.7 | 3.2 |
| Q104 | 11.7 | 126 | 12.3 |
| Q105 | 11.8 | 127 | 12.3 |
| Q106 | 11.7 | 118 | 12.5 |
| Q301 | 2.7 | 11.6 | 3.3 |
| Q302 | 6.5 | 12.3 | 11.6 |
| Q303 | 0 | 0 | 0 |
| Q304 | 1.1 | 6.6 | 1.8 |
| Q305 | 6.5 | 12.3 | 6.6 |
| Q306 | 6.5 | 0 | 6.6 |
| Q307 | 133 | 69.7 | 132 |
| Q308 | 3.0 | 69.7 | 3.5 |
| Q153 | 0 | 0 | 0 |
| Q154 | 12.4 | 0 | 12.2 |

[28"]



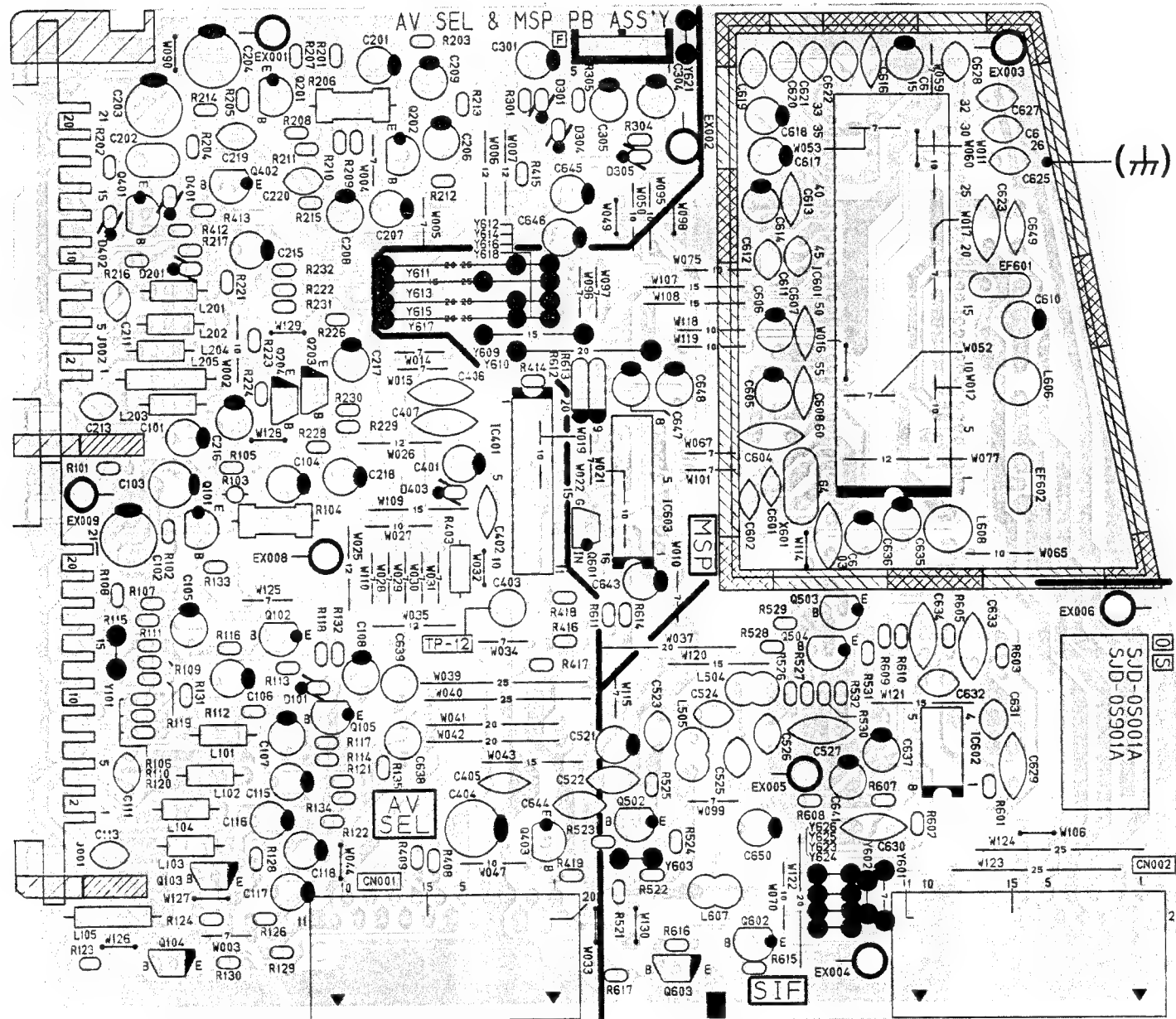
[32"]



AV-28WX1EP
AV-32WX1EP

(Magnification Rate 100%)

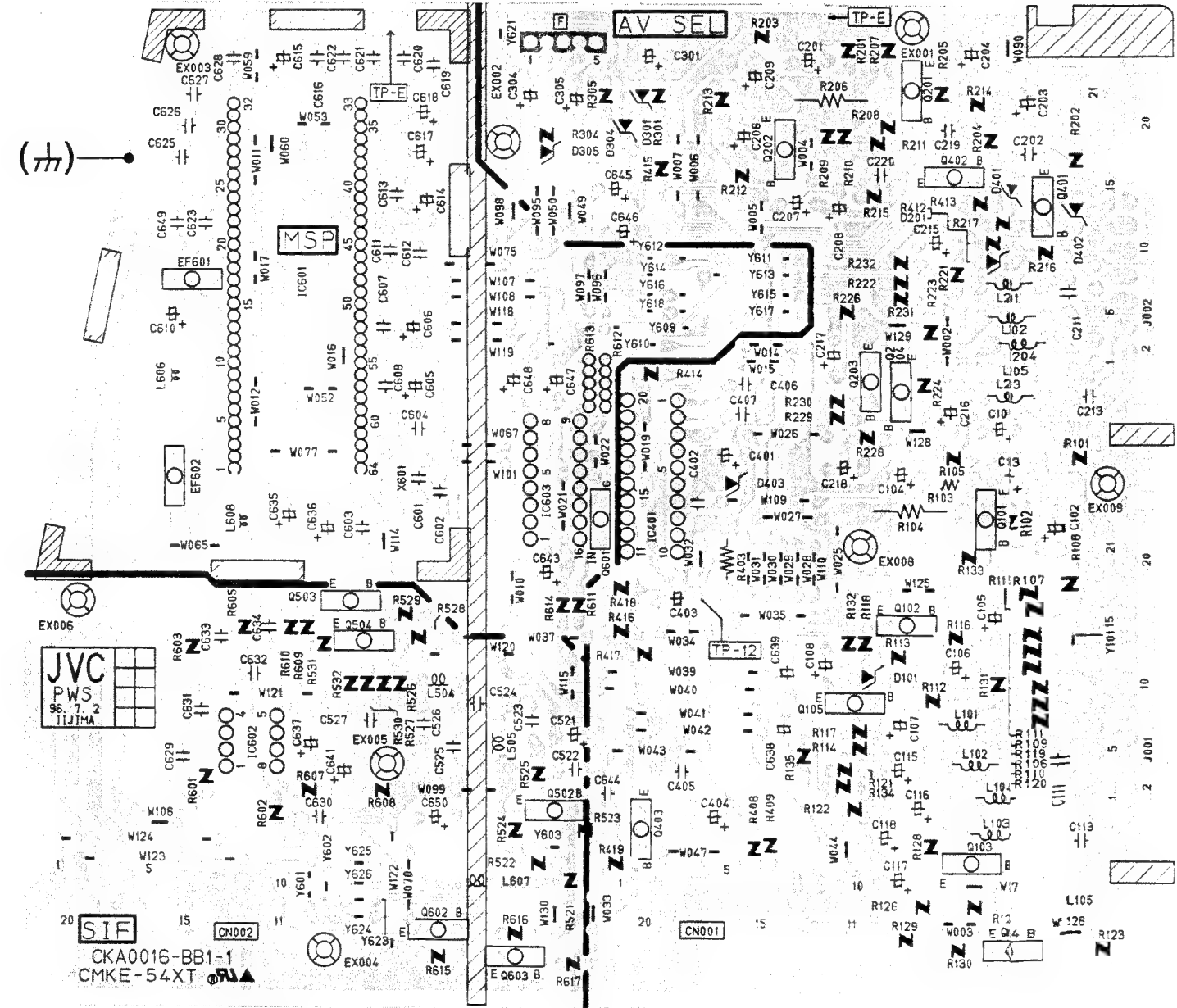
 TOP



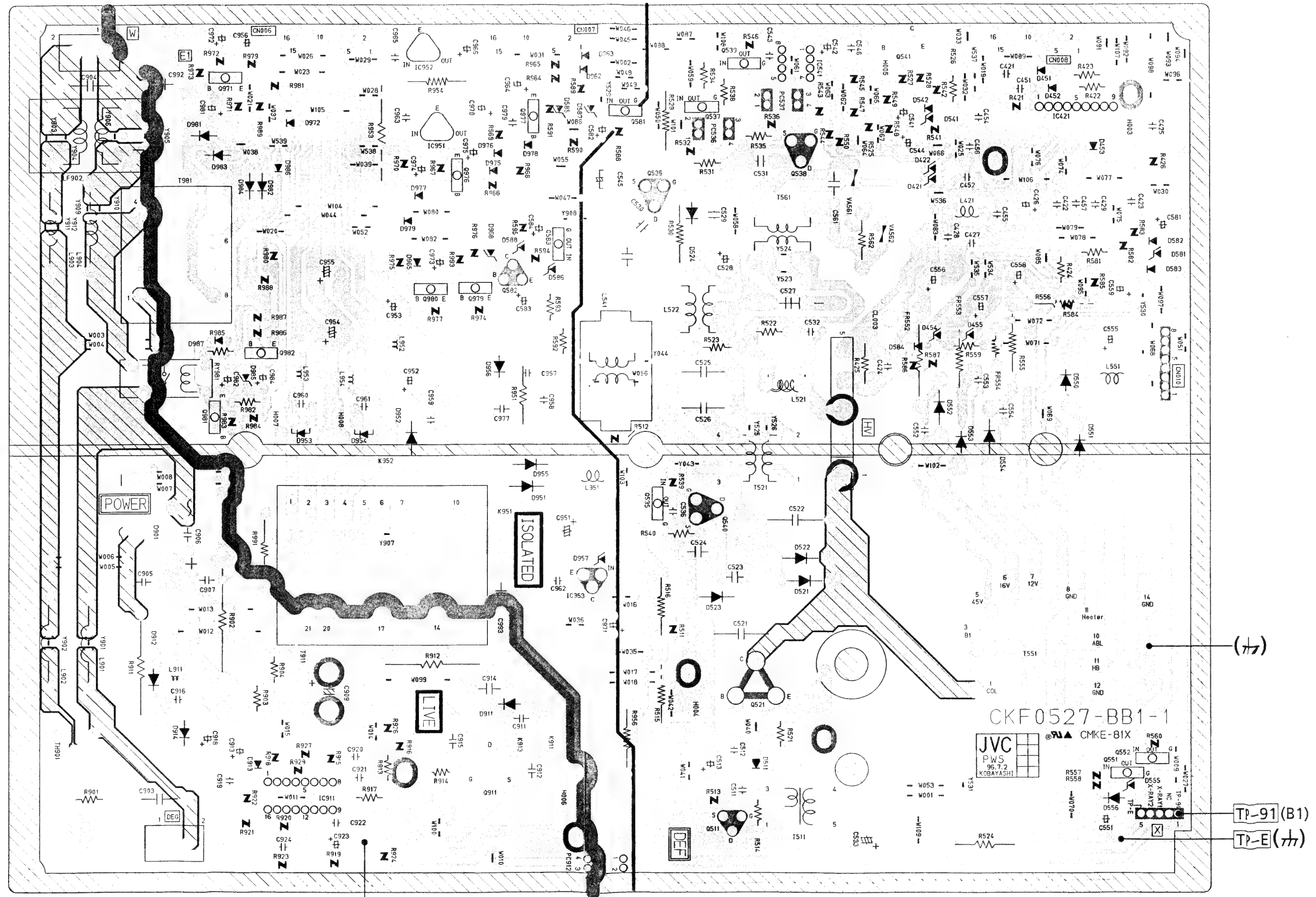
[SJD0\$001A-U2]

(Magnification Rate 100%)

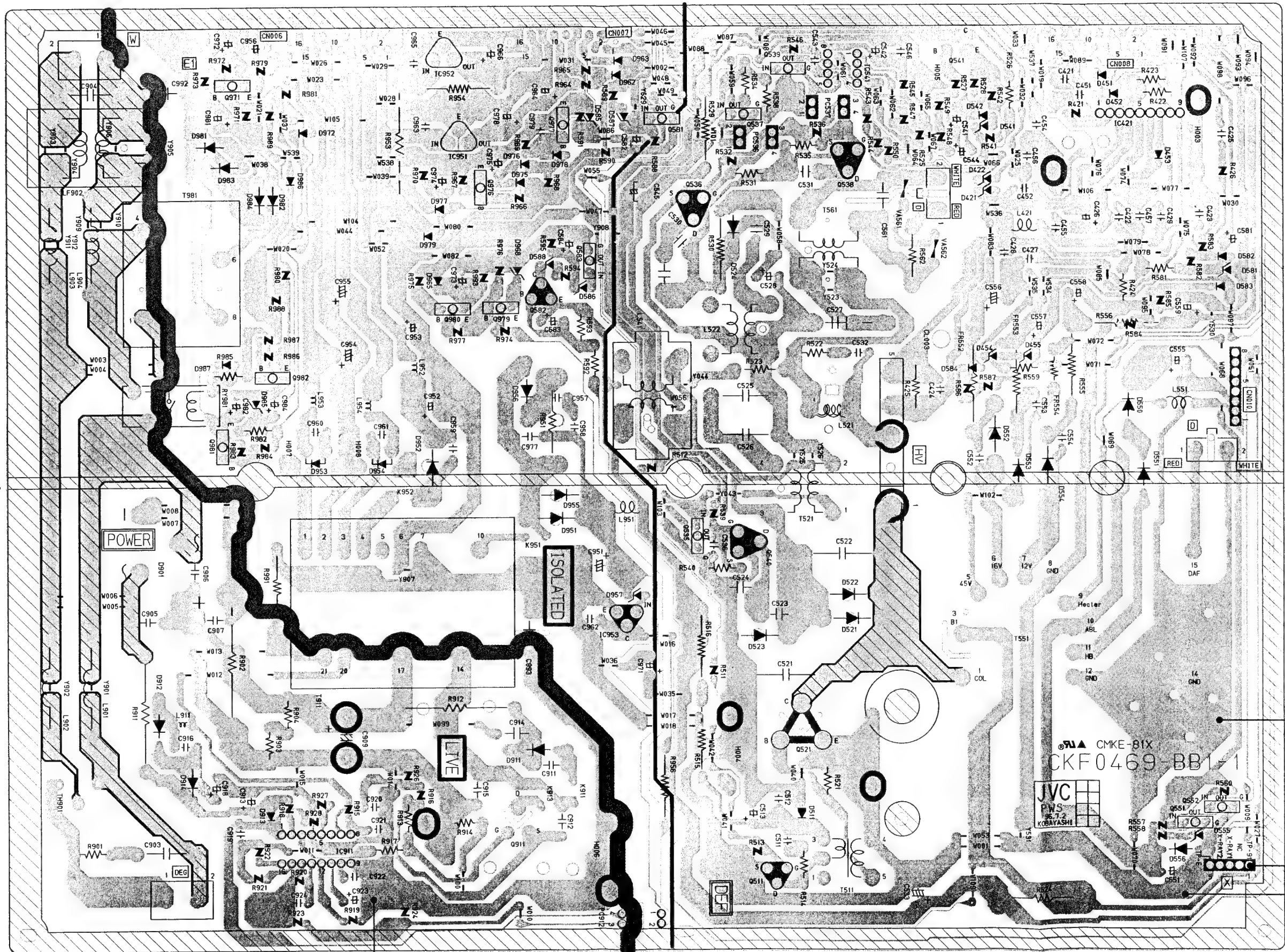
↑ TOP



FRONT



FRONT

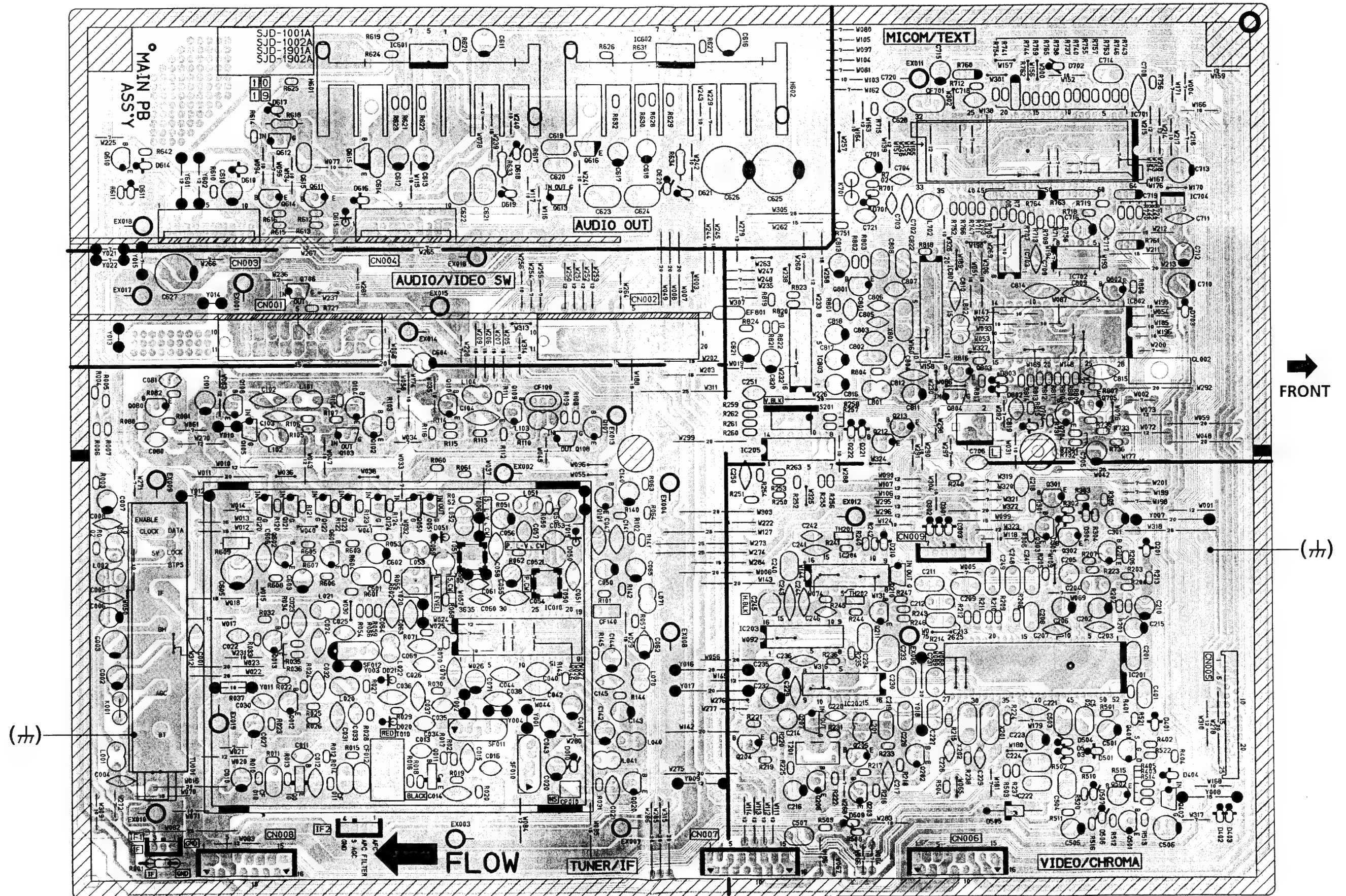


(T)

TP-91(B1)

TP-E (T)

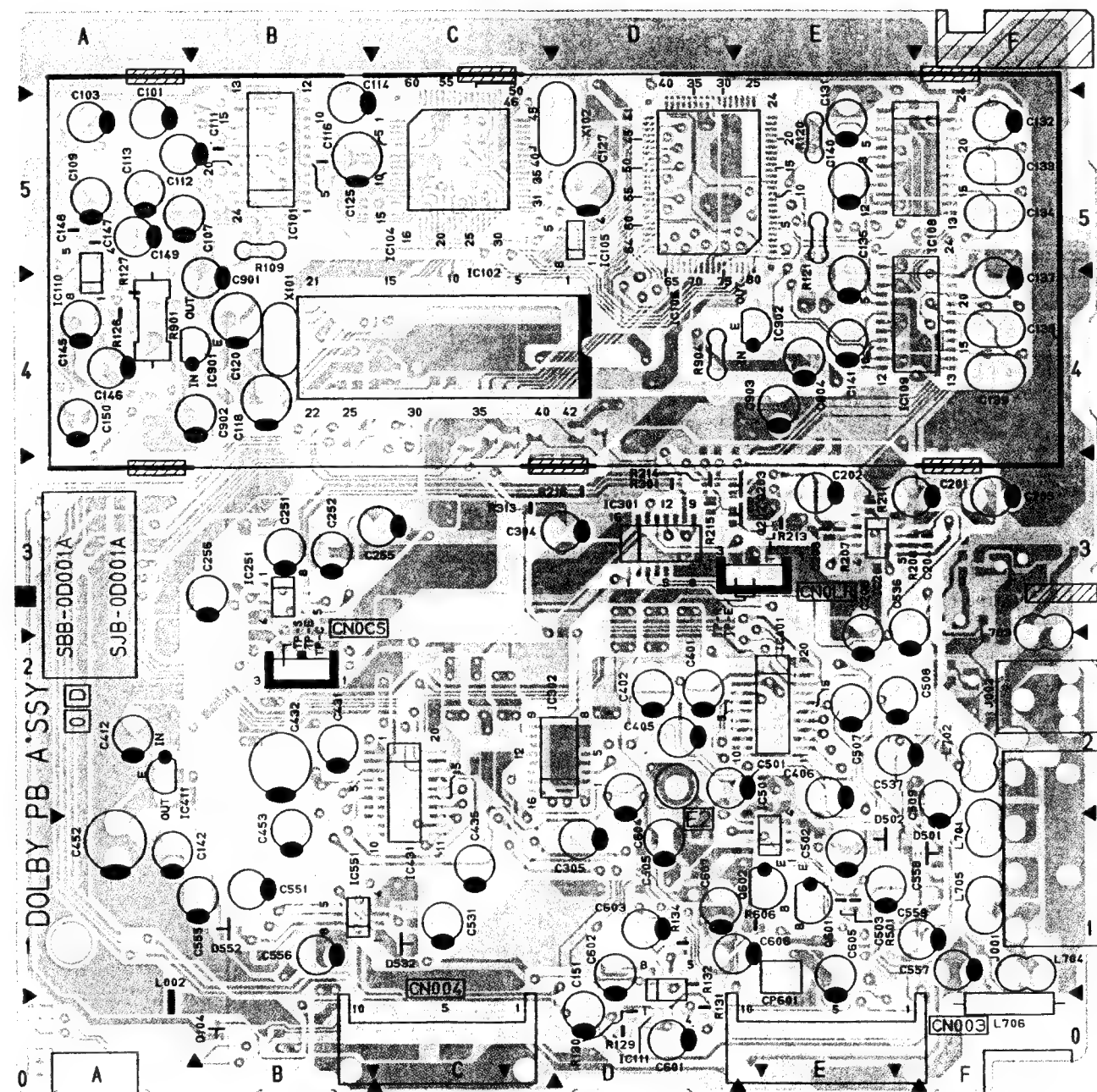
(T)



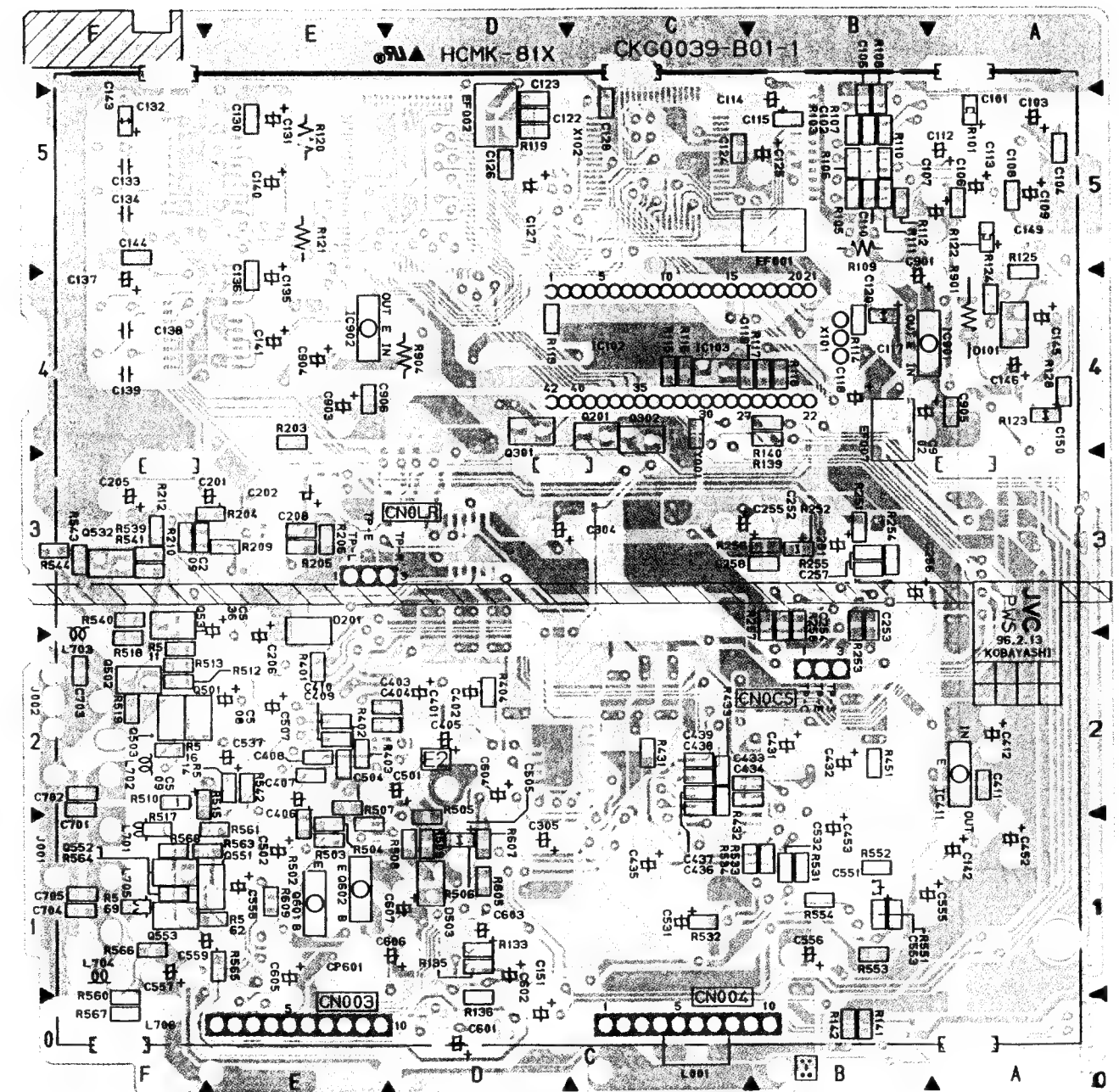


AV-28WX1EP
AV-32WX1EP

(Magnification Rate 115%)



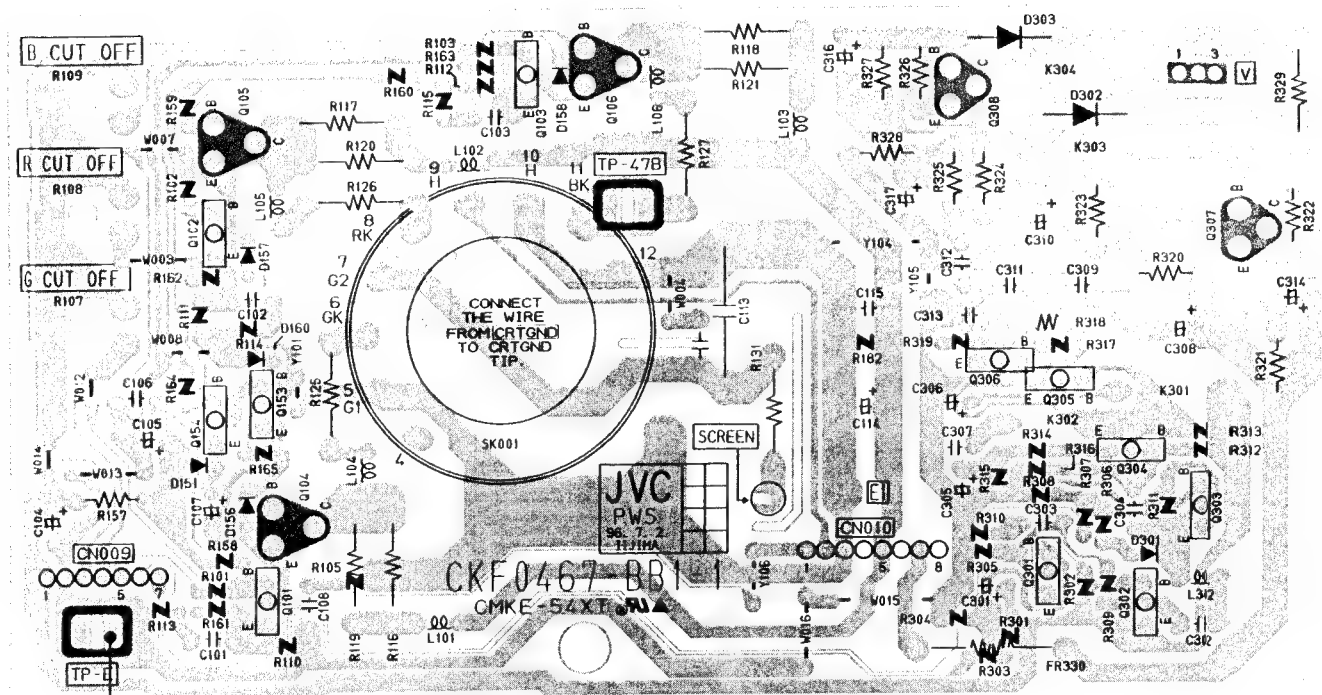
(Magnification Rate 115%)



CRT SOCKET PWB PATTERN

[28:SJD-3001A-U2 / 32:SJD-3002A-U2]

(Magnification Rate 98%)

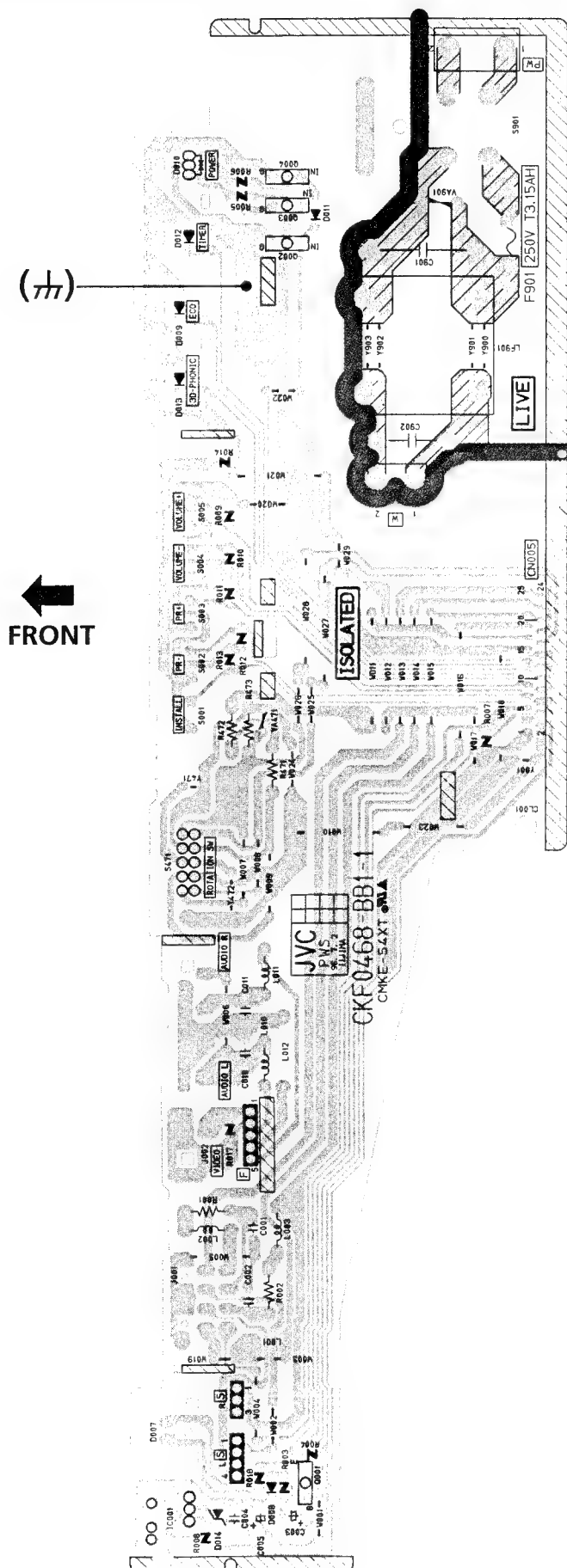


(TH)

FRONT CONTROL PWB PATTERN

[28:SJD-8001A-U2 / 32:SJD-8002A-U2]

(Magnification Rate 72%)



PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
 - The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied .
 - P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .
 - As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board .
- When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" .

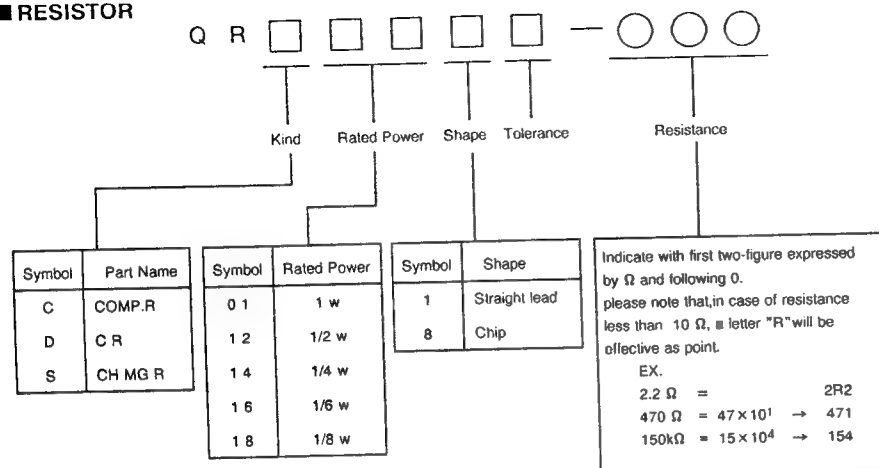
ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

| RESISTORS | | CAPACITORS | |
|-----------|--|-----------------|---|
| C R | Carbon Resistor | C CAP. | Ceramic Capacitor |
| F R | Fusible Resistor | E CAP. | Electrolytic Capacitor |
| P R | Plate Resistor | M CAP. | Mylar Capacitor |
| V R | Variable Resistor | HV CAP. | High Voltage Capacitor |
| HV R | High Voltage Resistor | MF CAP. | Metalized Film Capacitor |
| MF R | Metal Film Resistor | MM CAP. | Metalized Mylar Capacitor |
| MG R | Metal Glazed Resistor | MP CAP. | Metalized Polystyrol Capacitor |
| MP R | Metal Plate Resistor | PP CAP. | Polypropylene Capacitor |
| OM R | Metal Oxide Film Resistor | PS CAP. | Polystyrol Capacitor |
| CMF R | Coating Metal Film Resistor | TF CAP. | Thin Film Capacitor |
| UNF R | Non-Flammable Resistor | MPP CAP. | Metalized Polypropylene Capacitor |
| CH V R | Chip Variable Resistor | TAN. CAP. | Tantalum Capacitor |
| CH MG R | Chip Metal Glazed Resistor | CH C CAP. | Chip Ceramic Capacitor |
| COMP. R | Composition Resistor | BP E CAP. | Bi-Polar Electrolytic Capacitor |
| LPTC R | Linear Positive Temperature Coefficient Resistor | CH AL E CAP. | Chip Aluminum Electrolytic Capacitor |
| | | CH AL BP CAP. | Chip Aluminum Bi-Polar Capacitor |
| | | CH TAN. E CAP. | Chip Tantalum Electrolytic Capacitor |
| | | CH AL BP E CAP. | Chip Tantalum Bi-Polar Electrolytic Capacitor |

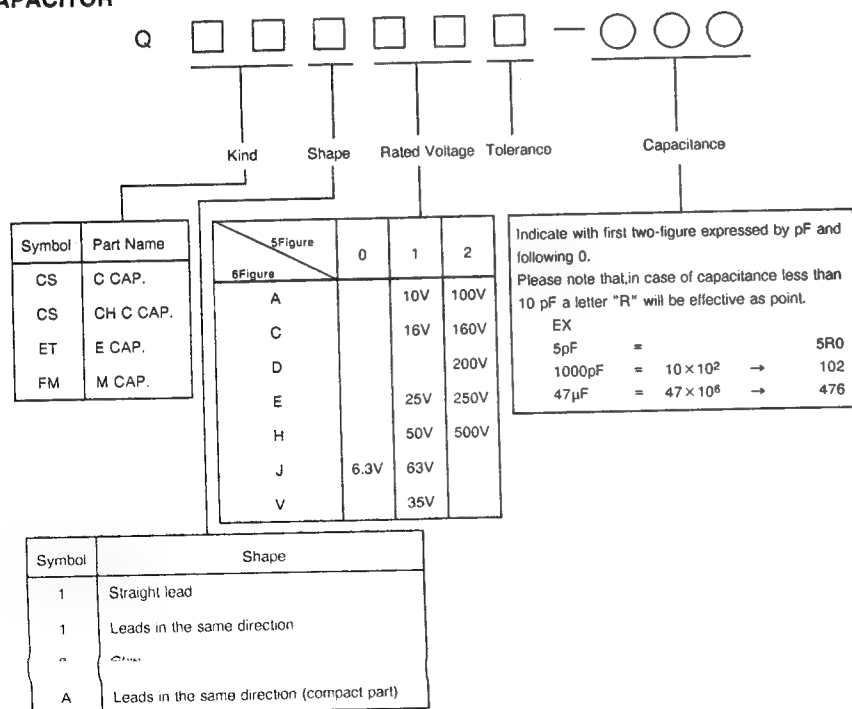
| TOLERANCES | | | | | | | | | |
|------------|-----------|-----------|------------|------------|------------|--------------------------|------------------------|------------------------|------------------------|
| F | G | J | K | M | N | R | H | Z | P |
| $\pm 1\%$ | $\pm 2\%$ | $\pm 3\%$ | $\pm 10\%$ | $\pm 20\%$ | $\pm 30\%$ | $\pm 20\%$ $\pm 10\%$ | $\pm 50\%$ $- 10\%$ | $\pm 80\%$ $- 20\%$ | $\pm 100\%$ $- 0\%$ |

HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



■ CAPACITOR



CONTENTS

■ USING P.W. BOARD & REMOTE CONTROL UNIT 4-3

[AV-28WX1EP]

■ EXPLODED VIEW PARTS LIST 4-4

■ EXPLODED VIEW 4-5

■ PRINTED WIRING BOARD PARTS LIST

| | | |
|--------------------------------|------------------|------|
| ● MAIN PW BOARD ASS'Y | (SJD-1001A-U2) | 4-6 |
| ● POWER/DEF PW BOARD ASS'Y | (SJD-2001A-U2) | 4-10 |
| ● CRT SOCKET PW BOARD ASS'Y | (SJD-3001A-U2) | 4-13 |
| ● FRONT CONTROL PW BOARD ASS'Y | (SJD-8001A-U2) | 4-14 |
| ● DOLBY PW BOARD ASS'Y | (SJB0D001A(U)) | 4-14 |
| ● AV SEL. & MSP ASS'Y | (SJD0S001A-U2) | 4-17 |

■ PACKING 4-19

■ PACKING PARTS LIST 4-19

[AV-32WX1EP]

■ EXPLODED VIEW PARTS LIST 4-20

■ EXPLODED VIEW 4-21

■ PRINTED WIRING BOARD PARTS LIST

| | | |
|--------------------------------|------------------|------|
| ● MAIN PW BOARD ASS'Y | (SJD-1002A-U2) | 4-22 |
| ● POWER/DEF PW BOARD ASS'Y | (SJD-2002A-U2) | 4-26 |
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| ● FRONT CONTROL PW BOARD ASS'Y | (SJD-8002A-U2) | 4-30 |
| ● DOLBY PW BOARD ASS'Y | (SJB0D001A(U)) | 4-30 |
| ● AV SEL. & MSP ASS'Y | (SJD0S001A-U2) | 4-33 |

■ PACKING 4-35

■ PACKING PARTS LIST 4-35

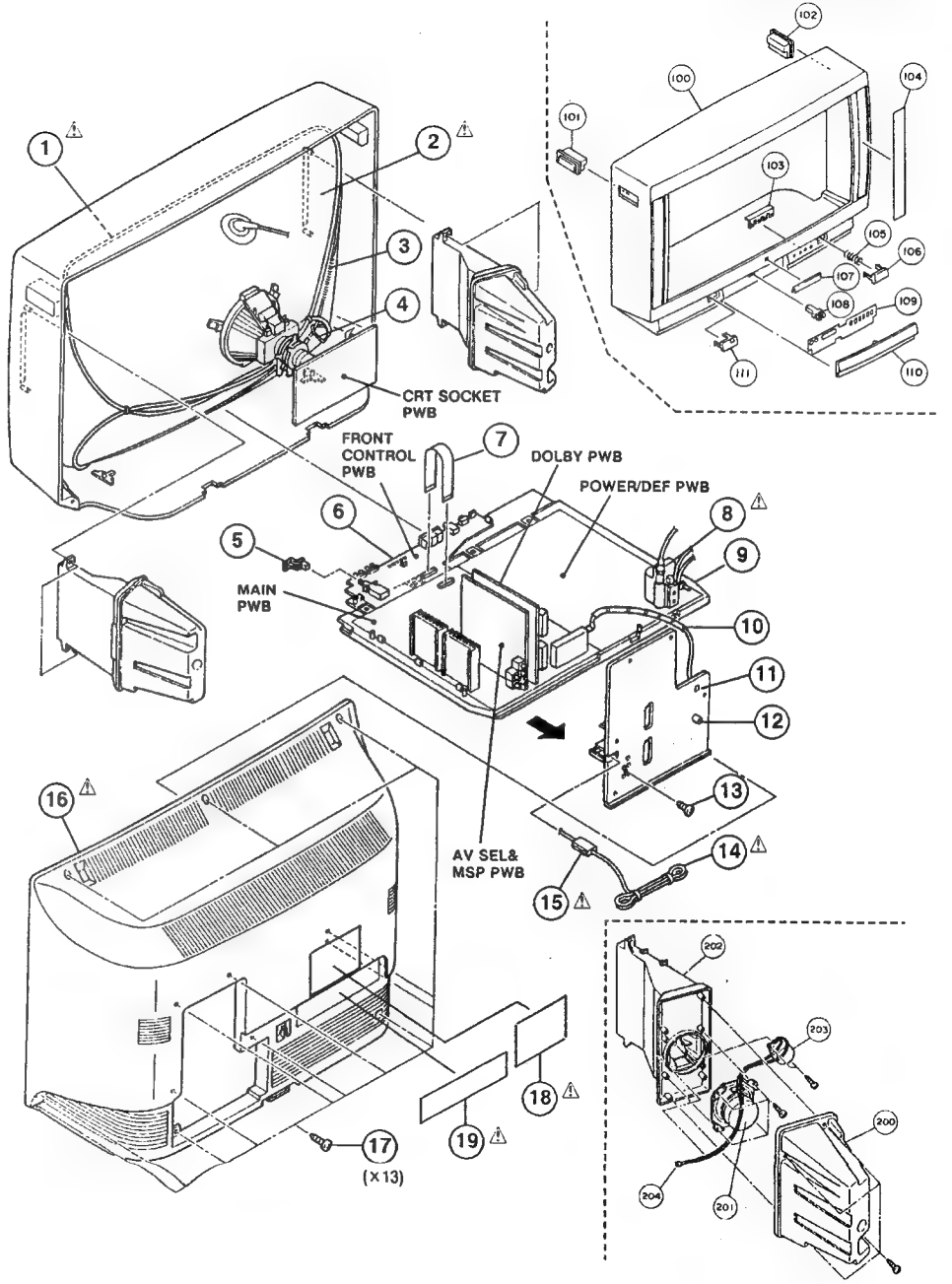
USING P.W. BOARD & REMOTE CONTROL UNIT

| P.W.B ASS'Y | Model | AV-28WX1EP | AV-32WX1EP |
|---------------------|-------|--------------|--------------|
| MAIN P.W.B | | SJD-1001A-U2 | SJD-1002A-U2 |
| POWER DEF P.W.B | | SJD-2001A-U2 | SJD-2002A-U2 |
| CRT SOCKET P.W.B | | SJD-3001A-U2 | SJD-3002A-U2 |
| FRONT CONTROL P.W.B | | SJD-8001A-U2 | SJD-8002A-U2 |
| DOLBY P.W.B | | SJB0D001A(U) | ← |
| AV SEL. & MSP P.W.B | | SJD0S001A-U2 | ← |
| REMOTE CONTROL UNIT | | RM-C782-1E | ← |

EXPLODED VIEW PARTS LIST

| Ref. No. | Part No. | Part Name | Description | Local |
|----------|----------------|------------------|----------------------------|-------|
| 1 | CELD061-001J2 | DEG COIL | L01 | * |
| 2 | W66LKV075X05 | ITC TUBE(C) | V01(Inc.DY,PC MAGNET,WED.) | * |
| 3 | CHGB0015-0B | BRAIDED ASSY | | * |
| 4 | CHGB0017-0C-CE | BRAIDED SUB ASSY | | * |
| 5 | CM36311-001 | KNOB CAP | | * |
| 6 | CM12799-003 | CONTROL BASE | | * |
| 7 | CHFB125-12BD | FFC WIRE | | * |
| 8 | CETH014-00AJ1 | H.V. TRANSF. | (SERVICE)T2551 | * |
| 9 | CM12800-A02-KD | CHASSIS BASE | | * |
| 10 | CHGY0017-0A-YS | ANTENNA CABLE | | * |
| 11 | CM12813-B01-E | AV TERM BOARD | | * |
| 12 | CE42112-002 | PALJ CONNECTOR | | * |
| 13 | SBSB3012M | TAPPING SCREW | For AV TERM BOARD | * |
| 14 | AEEMP001-185 | POWER CORD | | * |
| 15 | CM46618-A01-E | POWER CORD CLAMP | | * |
| 16 | CM12582-004-KD | REAR COVER | | * |
| 17 | GBSA4016N | TAPPING SCREW | (X13)For REAR COVER | * |
| 18 | CM23048-001 | RATING LABEL | For GBR/GER/ITA | * |
| 19 | CM23049-001 | RATING LABEL | For GBR/FRA/ESP | * |
| 100 | CM12677-B0D-KD | FRONT CABI. ASSY | Inc.No.101~111 | * |
| 101 | CM35866-00C | INSULATOR(L) | (SERVICE) | * |
| 102 | CM35866-00D | INSULATOR(R) | (SERVICE) | * |
| 103 | CM36223-001 | LED LENS | | * |
| 104 | CM36226-A0A-H | SPEAKER NET | (X2) | * |
| 105 | CM30861-069 | SPRING | | * |
| 106 | CM36225-001 | POWER KNOB | | * |
| 107 | CM48125-001 | JVC MARK | | * |
| 108 | CM48229-00A | DOOR LATCH | | * |
| 109 | CM36224-A10 | OPERATION SHEET | | * |
| 110 | CM22898-A03 | DOOR | (SERVICE) | * |
| 111 | CM48076-A01 | CDS WINDOW | | * |
| 200 | CM12878-001-E | DOME BOX | (X2) | * |
| 201 | CEBSF10P-04KJ6 | SPEAKER(WO) | (X2)SP01,SP02 | * |
| 202 | 2528MXSP-SWE | DOME SP ASSY | (X2)Inc.No.203,204 | * |
| 203 | CEBS03K-01KJ2 | SPEAKER | (X2) | * |
| 204 | CHGS0057-0A-N | S.P WIRE ASSY | (X2) | * |

EXPLODED VIEW



AV-28WX1EP

PRINTED WIRING BOARD PARTS LIST

AV-28WX1EP

MAIN PW BOARD ASS'Y (SJD-1001A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|---------------|----------------|---------------|-------|
| VARIABLE RESISTOR | | | | |
| M1055 | QVPE611-202HZ | V R(L V LEVEL) | 2k Ω B | |

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|----------|----------------|--------|-----------------------|--|
| RESISTOR | | | | |
| R1250-51 | QRV141F-1502AY | MF R | 15k Ω 1/4W F | |
| R1252 | QRV141F-4702AY | MF R | 47k Ω 1/4W F | |
| R1253 | QRV141F-1802AY | MF R | 18k Ω 1/4W F | |
| R1254 | QRV141F-3902AY | MF R | 39k Ω 1/4W F | |
| R1263 | QRV141F-2702AY | MF R | 27k Ω 1/4W F | |
| R1511 | QRV141F-1692AY | MF R | 16.9k Ω 1/4W F | |
| R1516 | QRV141F-2741AY | MF R | 2.74k Ω 1/4W F | |
| R1760 | QRB039J-103 | NETW.R | 10k Ω | |
| R1761 | QRB039J-471 | NETW.R | 470 Ω | |
| R1762 | QRB049J-103 | NETW.R | 10k Ω | |
| R1763 | QRB069J-103 | NETW.R | 10k Ω | |
| R1764 | QRB089J-103 | NETW.R | 10k Ω | |

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|-----------|---------------|--------|-------------------|--|
| CAPACITOR | | | | |
| C1002 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | |
| C1003 | QETN1CM-227Z | E CAP. | 220 μ F 16V M | |
| C1004-05 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1006 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | |
| C1007 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1008 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1010 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1020 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |

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|----------|--------------|-----------|--------------------|--|
| C1041 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1043 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1050 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1052 | QAT3110-100A | TRIM CAP. | 10 pF | |
| C1055 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1056 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | |
| C1059 | QAT3110-200A | TRIM CAP. | 20 pF | |
| C1060-61 | QCT25CH-120Z | C CAP. | 12 pF 50V J | |

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|-------|--------------|--------|--------------------|--|
| C1062 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | |
| C1065 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1071 | QETN1HM-336Z | E CAP. | 33 μ F 50V M | |
| C1101 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1103 | QCT25CH-820Z | C CAP. | 82 pF 50V J | |
| C1140 | QETN1HM-335Z | E CAP. | 3.3 μ F 50V M | |
| C1142 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1143 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | |

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|-------|---------------|-----------|--------------------|--|
| C1144 | QETN1HM-335Z | E CAP. | 3.3 μ F 50V M | |
| C1201 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1202 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1203 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1204 | QFLC1HJ-103MZ | M CAP. | 0.01 μ F 50V J | |
| C1205 | QEN61CM-105Z | BP E CAP. | 1 μ F 50V M | |
| C1206 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1207 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |

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|----------|---------------|-----------|---------------------|--|
| C1208 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1209 | QFLC1HJ-473MZ | M CAP. | 0.047 μ F 50V J | |
| C1210 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | |
| C1211-13 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1214 | QEN61CM-105Z | BP E CAP. | 1 μ F 50V M | |
| C1215 | QETN1HM-105Z | E CAP. | 0.1 μ F 25V Z | |
| C1217 | QCZ0120-104MZ | C CAP. | 0.1 μ F 50V J | |
| C1219 | QFV71HJ-104MZ | TF CAP. | 39 pF 50V J | |

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|-------|---------------|---------|-------------------|--|
| C1220 | QCT25CH-390Z | C CAP. | 0.1 μ F 25V Z | |
| C1221 | QCZ0120-104MZ | C CAP. | 0.1 μ F 50V J | |
| C1222 | QFV71HJ-104MZ | TF CAP. | | |

| Symbol No. | Part No. | Part Name | Description | Local |
|------------|---------------|-----------|---------------------|-------|
| CAPACITOR | | | | |
| C1223 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1224 | QFLC1HJ-332MZ | M CAP. | 3300 pF 50V J | |
| C1226 | QCT25CH-150Z | C CAP. | 15 pF 50V J | |
| C1227-28 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1229 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1230-31 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | |
| C1232 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1233 | QFV71HJ-224MZ | TF CAP. | 0.22 μ F 50V J | |
| C1234 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1235 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1236 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1240 | QFLC1HJ-103MZ | M CAP. | 0.01 μ F 50V J | |
| C1241 | QCT25CH-820Z | C CAP. | 82 pF 50V J | |
| C1242 | QCT25CH-220Z | C CAP. | 22 pF 50V J | |
| C1243 | QCT25CH-221Z | C CAP. | 220 pF 50V J | |
| C1244 | QCT25CH-330Z | C CAP. | 33 pF 50V J | |
| C1245 | QAT3110-300A | TRIM CAP. | 30 pF | |
| C1246 | QCT25CH-5R0Z | C CAP. | 5.0 pF 50V J | |
| C1247-49 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1250 | QCT25CH-101Z | C CAP. | 100 pF 50V J | |
| C1301 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1401 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1501 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1502 | QFLC1HJ-472MZ | M CAP. | 4700 pF 50V J | |
| C1503 | QFLC1HJ-222MZ | M CAP. | 2200 pF 50V J | |
| C1504 | QFLC1HJ-682MZ | M CAP. | 6800 pF 50V J | |
| C1505 | QETN2AM-106Z | E CAP. | 10 μ F 100V M | |
| C1506 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | |
| C1507 | QFLC1HJ-122MZ | M CAP. | 1200 pF 50V J | |
| C1601 | QFLC1HJ-183MZ | M CAP. | 0.018 μ F 50V J | |
| C1602 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1603 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | |
| C1604 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1605 | QETN1CM-477Z | E CAP. | 470 μ F 18V M | |
| C1610 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | |
| C1612 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1613 | QETN1CM-107Z | E CAP. | 100 μ F 18V M | |
| C1614-15 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1617 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | |
| C1618 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1619-20 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1621-24 | QFV71HJ-684MZ | TF CAP. | 0.68 μ F 50V J | |
| C1625-26 | QETN1EM-228 | E CAP. | 2200 μ F 25V M | |
| C1627 | QETN1CM-108Z | E CAP. | 1000 μ F 18V M | |
| C1701 | QETN1AM-107Z | E CAP. | 100 μ F 10V M | |
| C1702 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1703-04 | QCT25CH-150Z | C CAP. | 15 pF 50V J | |
| C1705 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C1709 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1710 | QETN1EM-476Z | E CAP. | 47 μ F 25V M | |
| C1711 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1712 | QETN1HM-225Z | E CAP. | 2.2 μ F 50V M | |
| C1713 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | |
| C1714 | QFLC1HJ-333MZ | M CAP. | 0.033 μ F 50V J | |
| C1715 | QEN61HM-104MZ | E CAP. | 0.1 μ F 50V M | |
| C1716 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | |
| C1802 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | |
| C1805-06 | QCT25CH-150Z | C CAP. | 15 pF 50V J | |
| C1808 | QFLC1HJ-223MZ | M CAP. | 0.022 μ F 50V J | |
| C1810 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1811 | QETN0JM-227Z | E CAP. | 220 μ F 6.3V M | |
| C1812 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | |
| C1813 | QETN1CM-226Z | E CAP. | 22 μ F 16V M | |
| C1816-18 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | |

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| Symbol No. | Part No. | Part Name | Description | Local |
|-------------|----------------|------------------|-------------------|-------|
| CAPACITOR | | | | |
| C1820 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1821 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1822 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| TRANSFORMER | | | | |
| T1010 | CELT022-001J1 | FTZ TRAP TRANSF. | | * |
| T1050 | CELT001-303 | C.WAVE TRANSF. | | * |
| T1051 | CELT001-306 | C.WAVE TRANSF. | | * |
| T1201 | CE41925-001 | DELAY LINE | | * |
| COIL | | | | |
| L1001 | CELP026-221Z | PEAKING COIL | 220 μ H | * |
| L1002-03 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1020-21 | CELP026-1R5Z | PEAKING COIL | 1.5 μ H | * |
| L1022 | CELP026-2R2Z | PEAKING COIL | 2.2 μ H | * |
| L1040-41 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1050-53 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1070 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1071 | CELP026-5R6Z | PEAKING COIL | 5.6 μ H | * |
| L1101 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1102 | CELP027-120Z | PEAKING COIL | 12 μ H | * |
| L1103 | CELP026-120Z | PEAKING COIL | 12 μ H | * |
| L1104 | CELP026-5R6Z | PEAKING COIL | 5.6 μ H | * |
| L1201 | CELP027-330Z | PEAKING COIL | 33 μ H | * |
| L1702 | CELP037-5R8Z | PEAKING COIL | 5.6 μ H | * |
| L1801 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1802 | CELP026-3R3Z | PEAKING COIL | 3.3 μ H | * |
| DIODE | | | | |
| D1010 | MTZJ10(B)-T2 | ZENER DIODE | | * |
| D1020-21 | 1SS85-T5 | SI.DIODE | | * |
| D1050-51 | 1SS85-T5 | SI.DIODE | | * |
| D1201 | 1SS133-T2 | SI.DIODE | | * |
| D1210 | 1SS133-T2 | SI.DIODE | | * |
| D1221-22 | 1SS133-T2 | SI.DIODE | | * |
| D1301-05 | 1SS133-T2 | SI.DIODE | | * |
| D1401-04 | 1SS133-T2 | SI.DIODE | | * |
| D1501 | 1SS133-T2 | SI.DIODE | | * |
| D1503 | 1SS146-T2 | SI.DIODE | | * |
| D1504 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| D1505 | BYD33G-T3 | SI.DIODE | | * |
| D1506 | MTZJ7.5S-T2 | ZENER DIODE | | * |
| D1507 | MTZJ4.3(A)-T2 | ZENER DIODE | | * |
| D1509 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| D1610-11 | 1SS133-T2 | SI.DIODE | | * |
| D1614 | 1SS133-T2 | SI.DIODE | | * |
| D1616 | 1SS133-T2 | SI.DIODE | | * |
| D1617 | MTZJ5.1(B)-T2 | ZENER DIODE | | * |
| D1618-21 | MTZJ27(B)-T2 | ZENER DIODE | | * |
| D1624 | RD6.8E(B2)-T2 | ZENER DIODE | | * |
| D1701 | MA700-T2 | SI.DIODE | | * |
| D1702 | MTZJ5.1(A)-T2 | ZENER DIODE | | * |
| D1703 | 1SS146-T2 | SI.DIODE | | * |
| D1704 | 1SS133-T2 | SI.DIODE | | * |
| D1802-03 | 1SS133-T2 | SI.DIODE | | * |
| TRANSISTOR | | | | |
| Q1010-11 | 2SC5083(L-P)-T | SI. TRANSISTOR | | * |
| Q1012-13 | 2SC1906-T | SI. TRANSISTOR | | * |
| Q1020 | 2SC1959(Y)-T | SI. TRANSISTOR | | * |
| Q1050-51 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1080 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1101 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1102 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1103 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1104 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1106 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|-------------|----------------|------------------|--------------------|-------|
| TRANSFORMER | | | | |
| Q1107 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1108 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1109-10 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1120-24 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1201 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1202 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1203 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1204-05 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1206 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1207 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1210 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1211-13 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1301-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1303 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1401 | 2SK301(Q)-T | F.E.T. | | * |
| Q1402 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q1501 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1502 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1601-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1610-11 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1612-13 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1614 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1615-16 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| Q1704-05 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1706 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1801-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1803 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1804 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| I.C. | | | | |
| IC1010 | TA8865BN | I.C.(MONO-ANA) | | * |
| IC1201 | TDA8376A | I.C.(MONO-ANA) | | * |
| IC1202 | TDA4665 | I.C.(MONO-ANA) | | * |
| IC1203 | TDA8395/N3 | I.C.(MONO-ANA) | | * |
| IC1204 | MC145388CP | I.C.(DIGI-MOS) | | * |
| IC1205 | UPC324C | I.C.(MONO-ANA) | | * |
| IC1601-02 | TDA2052V | I.C.(MONO-ANA) | | * |
| IC1701 | M3727QMF-060SP | I.C. | | * |
| IC1702 | AT24C1628WX1EP | I.C.(EP-ROM) | (SERVICE) | * |
| IC1703 | AT24C16-10PC | I.C.(EP-ROM) | | * |
| IC1704 | L78LR05E-MA | I.C.(MONO-ANA) | | * |
| IC1801 | CF72417 | I.C.(DIGI-MOS) | | * |
| IC1802 | CF70206 | I.C.(DIGI-MOS) | | * |
| IC1803 | TC4053BP | I.C.(DIGI-MOS) | | * |
| OTHERS | | | | |
| CF1010 | FTP40.40MF | CERAMIC FILTER | | * |
| CF1011 | MKT40MA100P | CERAMIC FILTER | | * |
| CF1012 | MKT40.9MA100P | CERAMIC FILTER | | * |
| CF1100 | TPS5.5MW | CERAMIC FILTER | | * |
| CF1140 | CSB503F30-T2 | CER. RESONATOR | | * |
| CF1701 | CS18.00MTW | CER. RESONATOR | | * |
| CN1005 | CHC108N-25T-A | FFC CONNECTOR | | * |
| CP1010 | ICP-N5-Y | I.C.PROTECT | | * |
| K1001 | CE41433-001Z | BEADS CORE | | * |
| K1701 | CE41433-001Z | BEADS CORE | | * |
| R1609 | QRZ0054-470M | F R | 47 Ω 1/4W J | * |
| S1201 | QSL4A13-C03Z | LEVER SWITCH | | * |
| SF1010 | CE42573-701 | SAW FILTER | | * |
| SF1011 | CE42574-702 | SAW FILTER | | * |
| SF1012 | CE42606-701 | SAW FILTER | | * |
| TH1201-02 | ERT-D2ZHL503S | N.THERMISTOR | | * |
| TU1001 | CE4K471-A01 | TUNER | | * |
| X1201 | CE41115-001J2 | CRYSTAL | | * |
| X1202 | CE41651-001Z | CRYSTAL | | * |
| X1801 | CE41257-001 | CRYSTAL | | * |

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POWER/DEF PW BOARD ASS'Y (SJD-2001A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|------------|----------------|-----------|---------------------------------|-------|
| RESISTOR | | | | |
| R2421 | QRV141F-2701AY | MF R | 2.7k Ω 1/4W F | * |
| R2425 | QRG019J-221S | OM R | 220 Ω 1W J | * |
| R2515-16 | QRG029J-272 | OM R | 2.7k Ω 2W J | * |
| R2524 | QRF074K-3R3 | UNF R | 3.3 Ω 7W K | * |
| R2529 | QRG039J-270A | OM R | 27 Ω 3W J | * |
| R2530 | QRG029J-103 | OM R | 10k Ω 2W J | * |
| R2555 | QRX029J-1R5 | MF R | 1.5 Ω 2W J | * |
| R2556 | QRX029J-1R8 | MF R | 1.8 Ω 2W J | * |
| R2902 | QRF104K-3R9 | UNF R | 3.9 Ω 1/10W K | * |
| R2911 | QRG039J-393 | OM R | 39k Ω 3W J | * |
| R2912 | QRG039J-473 | OM R | 47k Ω 3W J | * |
| R2914 | QRM059J-R22 | MP R | 0.22 Ω 5W J | * |
| R2951 | QRF074J-102 | UNF R | 1k Ω 7W J | * |
| R2953 | QRX039J-6R8 | MF R | 6.8 Ω 3W J | * |
| R2954 | QRG029J-270 | OM R | 27 Ω 2W J | * |
| R2956 | QRG029J-123 | OM R | 12k Ω 2W J | * |
| R2991 | QRZ0057-826 | C R | 8.2M Ω 1W J | * |
| CAPACITOR | | | | |
| C2422 | QFV71HJ-474MZ | TF CAP. | 0.47 μ F 50V J | * |
| C2423 | QFLC2AJ-823MZ | M CAP. | 0.082 μ F 100V J | * |
| C2424 | QFLC2AJ-563MZ | M CAP. | 0.056 μ F 100V J | * |
| C2425 | QFLC2AJ-393MZ | M CAP. | 0.039 μ F 100V J | * |
| C2429 | QFV71HJ-474MZ | TF CAP. | 0.47 μ F 50V J | * |
| C2454 | QFLC1HK-823MZ | M CAP. | 0.082 μ F 50V K | * |
| C2455 | QFLC2AJ-103MZ | M CAP. | 0.01 μ F 100V J | * |
| C2456-57 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C2513 | QETN2CM-105Z | E CAP. | 1 μ F 160V M | * |
| C2521 | QFZ0122-132S | MPP CAP. | 1300 pF 1.8kVH \pm 3% | * |
| C2522 | QFZ0117-1202S | MPP CAP. | 0.012 μ F 1.4kVH \pm 2.5% | * |
| C2523 | QFP32GJ-223M | PP CAP. | 0.022 μ F 400V J | * |
| C2524 | QFM72DK-683M | M CAP. | 0.068 μ F 200V K | * |
| C2527 | QFZ0119-354S | MPP CAP. | 0.35 μ F 200V \pm 3% | * |
| C2528 | QETC2CM-475Z | E CAP. | 4.7 μ F 160V M | * |
| C2529 | QFZ0128-393S | MPP CAP. | 0.039 μ F | * |
| C2530 | QFZ0119-224S | MPP CAP. | 0.22 μ F 200V \pm 3% | * |
| C2531 | QFZ0119-104S | MPP CAP. | 0.1 μ F 200V \pm 3% | * |
| C2533 | QETM2CM-227 | E CAP. | 220 μ F 160V M | * |
| C2541 | QETN1AM-107Z | E CAP. | 100 μ F 10V M | * |
| C2542 | QETN1EM-476Z | E CAP. | 47 μ F 25V M | * |
| C2545 | QEZ0195-475MZ | E CAP. | 4.7 μ F 50V | * |
| C2546 | QFLC1HJ-104MZ | M CAP. | 0.1 μ F 50V J | * |
| C2551 | QEN61HM-106Z | BP E CAP. | 1 μ F 50V M | * |
| C2555 | QETN2EM-106Z | E CAP. | 10 μ F 250V M | * |
| C2556 | QETN1EM-108Z | E CAP. | 1000 μ F 25V M | * |
| C2557 | QETC1JM-107Z | E CAP. | 100 μ F 63V M | * |
| C2559 | QETN1CM-108Z | E CAP. | 1000 μ F 16V M | * |
| C2583 | QETC0JM-107Z | E CAP. | 100 μ F 6.3V M | * |
| C2584 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C2903 | QFZ9040-473N | MM CAP. | 0.047 μ F | * |
| C2905 | QCZ9034-472A | C CAP. | 4700 pFAC400V | P |
| C2906 | QCZ9034-472A | C CAP. | 4700 pFAC400V | P |
| C2907 | QCZ9034-472A | C CAP. | 4700 pFAC400V | P |
| C2909 | QEZ0167-227M | E CAP. | 220 μ F 385V | * |
| C2911 | QCZ0122-391A | C CAP. | 390 pF 2000V K | * |
| C2913 | QETN1EM-107Z | E CAP. | 100 μ F 25V M | * |
| C2915 | QCZ0122-271A | C CAP. | 270 pF 2000V K | * |
| C2918 | QETN1EM-227Z | E CAP. | 220 μ F 25V M | * |
| C2919 | QFLC1HJ-104MZ | M CAP. | 0.1 μ F 50V J | * |
| C2920 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | * |
| C2923 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|-------------|----------------|-----------------|--------------------|-------|
| CAPACITOR | | | | |
| C2924 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | * |
| C2951 | QEZ0203-227 | E CAP. | 220 μ F 160V | * |
| C2952 | QETN1EM-108Z | E CAP. | 1000 μ F 25V M | * |
| C2956 | QEN61CM-106Z | BP E CAP. | 10 μ F 16V M | * |
| C2963 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C2964 | QETN1AM-228Z | E CAP. | 2200 μ F 10V M | * |
| C2965 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C2966 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | * |
| C2973 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C2974 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C2975 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C2978 | QETN1AM-228Z | E CAP. | 2200 μ F 10V M | * |
| C2981 | QETN1EM-227Z | E CAP. | 220 μ F 25V M | * |
| C2982 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C2984 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C2992 | QCZ9041-471A | C CAP. | 470 pFAC400V | M |
| C2993 | QCZ9041-332A | C CAP. | 3300 pFAC400V | M |
| TRANSFORMER | | | | |
| T2511 | CE42034-002 | H.DRIVE TRANSF. | (SERVICE) | * |
| T2551 | CETH014-00AJ1 | H.V. TRANSF. | | * |
| T2911 | CETS066-001J4 | SWITCH TRANSF. | | * |
| T2981 | QQT0147-001 | POWER TRANSF. | | * |
| COIL | | | | |
| L2421 | CELC901-024J6 | HEATER CHOKE | | * |
| L2521 | CELL011-002J1 | LINEARITY COIL | | * |
| L2522 | CE42693-001J1 | CHOKE COIL | | * |
| L2541 | CE42691-001J1 | INJECTION COIL | | * |
| L2551 | CELC901-038J6 | HEATER CHOKE | | * |
| L2911 | CELC005-2R5J7 | CHOKE COIL | | * |
| L2951 | CELC901-046J6 | HEATER CHOKE | | * |
| L2953-54 | CELC057-1R0Z | CHOKE COIL | | * |
| DIODE | | | | |
| D2421 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2422 | MTZJ24(B)-T2 | ZENER DIODE | | * |
| D2451-52 | 1SS133-T2 | SI DIODE | | * |
| D2453 | RD62E(B)-T2 | ZENER DIODE | | * |
| D2454 | MTZJ24(B)-T2 | ZENER DIODE | | * |
| D2455 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2456 | 1SR124-400A-T2 | SI DIODE | | * |
| D2511 | 1SS81-T5 | SI DIODE | | * |
| D2521-22 | BY228-20 | SI DIODE | | * |
| D2523 | BYW95B-20 | SI DIODE | | * |
| D2524 | BYD33G-T3 | SI DIODE | | * |
| D2541 | MTZJ6.8(C)-T2 | ZENER DIODE | | * |
| D2542 | 1SS133-T2 | SI DIODE | | * |
| D2550-51 | BYD33G-T3 | SI DIODE | | * |
| D2552 | BYW95B-20 | SI DIODE | | * |
| D2553 | BYD33D-T3 | SI DIODE | | * |
| D2554 | BYW95B-20 | SI DIODE | | * |
| D2555 | MTZJ15(A)-T2 | ZENER DIODE | | * |
| D2556 | BYD33G-T3 | SI DIODE | | * |
| D2581 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2582-84 | 1SS133-T2 | SI DIODE | | * |
| D2586 | MTZJ7.5(B)-T2 | ZENER DIODE | | * |
| D2588 | MTZJ15(B)-T2 | ZENER DIODE | | * |
| D2901 | D3SBA60 | DIODE BRIDGE | | * |
| D2911 | BYD33M-T3 | SI DIODE | | * |
| D2912 | BYD33D-T3 | SI DIODE | | * |
| D2914 | 1SR124-400A-T2 | SI DIODE | | * |
| D2951 | BYW95C-20 | SI DIODE | | * |
| D2952 | BYW95B-20 | SI DIODE | | * |
| D2953-54 | FML-G12S | SI DIODE | | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|------------|----------------|------------------|--------------|-------|
| CAPACITOR | | | | |
| D2956 | BYD33M-T3 | SI.DIODE | | * |
| D2957 | MTZJ9.1(C)-T2 | ZENER DIODE | | * |
| D2962-63 | 1SS133-T2 | SI.DIODE | | * |
| D2965 | 1SS133-T2 | SI.DIODE | | * |
| D2968 | MTZJ5.6(A)-T2 | ZENER DIODE | | * |
| D2978-79 | 1SS133-T2 | SI.DIODE | | * |
| D2981-84 | 1N4003-T2 | SI.DIODE | | * |
| D2985 | MTZJ8.2(B)-T2 | ZENER DIODE | | * |
| D2986-87 | 1SS133-T2 | SI.DIODE | | * |
| TRANSISTOR | | | | |
| Q2511 | BSN274 | F.E.T. | | * |
| Q2521 | 2SD2553-LB | SI.TRANSISTOR | H.OUT | * |
| Q2535 | DTC124ES-T | DIGI.TRANSISTOR | | * |
| Q2536 | IRF620 | F.E.T. | | * |
| Q2537 | DTC124ES-T | DIGI.TRANSISTOR | | * |
| Q2538 | IRF620 | F.E.T. | | * |
| Q2539 | DTC124ES-T | DIGI.TRANSISTOR | | * |
| Q2540 | IRF620 | F.E.T. | | * |
| Q2541 | 2SD1408(OY)-LB | SI.TRANSISTOR | | * |
| Q2551 | DTA144ES-T | DIGI.TRANSISTOR | | * |
| Q2552 | DTC144ES-T | DIGI.TRANSISTOR | | * |
| Q2582 | 2SA949(Y)C1-T | SI.TRANSISTOR | | * |
| Q2583 | DTC144ES-T | DIGI.TRANSISTOR | | * |
| Q2911 | MTA4N60E | F.E.T. | | * |
| Q2971 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q2976 | 2PA1015(YG)-T | SI.TRANSISTOR | | * |
| Q2977 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q2979 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q2980 | 2PA1015(YG)-T | SI.TRANSISTOR | | * |
| Q2981 | 2SC2655(Y)-T | SI.TRANSISTOR | | * |
| Q2982 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| I.C. | | | | |
| IC2421 | TDA8351/N5 | I.C.(MONO-ANA) | | * |
| IC2541 | UPC4558C | I.C.(MONO-ANA) | | * |
| IC2911 | MC44603P | I.C.(MONO-ANA) | | * |
| IC2951 | KIA7808PI | I.C.(MONO-ANA) | | * |
| IC2952 | KIA7805PI | I.C.(MONO-ANA) | | * |
| IC2953 | SE135N | I.C.(HYBRID) | | * |
| OTHERS | | | | |
| FR2552 | QRH027K-R82M | F R | 0.82 Ω 2W E | * |
| FR2553 | QRH017J-120M | F R | 12 Ω 1W J | * |
| FR2554 | QRZ0054-4R7M | F R | 4.7 Ω 1/4W J | * |
| K2911 | CE42050-001Z | CORE | | * |
| K2913 | CE42050-001Z | CORE | | * |
| K2951 | CE41433-001Z | BEADS CORE | | * |
| K2952 | CE42050-001Z | CORE | | * |
| PC2536-37 | TLP621(B) | I.C.(PH.COUPLER) | | * |
| PC2912 | TLP721F(D4-GR) | PHOTO COUPLER | | * |
| RY2981 | CESK028-002 | RELAY | | * |
| TH2901 | CEKP002-003 | W.P.THERMISTOR | | * |

CRT SOCKET PW BOARD ASS'Y (SJD-3001A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|---------------|----------------|----------------|-------|
| VARIABLE RESISTOR | | | | |
| R3107 | QVPE805-302H | V R(G CUT OFF) | 3k Ω B | * |
| R3108 | QVPE805-302H | V R(R CUT OFF) | 3k Ω B | * |
| R3109 | QVPE805-302H | V R(B CUT OFF) | 3k Ω B | * |
| RESISTOR | | | | |
| R3116-21 | QRG029J-153A | OM R | 15k Ω 2W J | * |
| R3318 | ORD149J-100S | C R | 10 Ω 1/4W J | * |
| R3329 | QRG029J-391A | OM R | 390 Ω 2W J | * |
| CAPACITOR | | | | |
| C3104 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C3105 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C3106 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C3107 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C3113 | QCZ0121-102A | C CAP. | 1000 p F 16V M | * |
| C3114 | QETM2EM-336 | E CAP. | 33 μ F 250V M | * |
| C3301 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C3304 | QFLC1HJ-103MZ | M CAP. | 0.01 μ F 50V J | * |
| C3305 | QETN1HM-335Z | E CAP. | 3.3 μ F 50V M | * |
| C3306 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C3308 | QETN2CM-106Z | E CAP. | 10 μ F 160V M | * |
| C3310 | QETN2CM-106Z | E CAP. | 10 μ F 160V M | * |
| C3314 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C3316 | QETN1AM-107Z | E CAP. | 100 μ F 10V M | * |
| C3317 | QETN1CM-337Z | E CAP. | 330 μ F 16V M | * |
| COIL | | | | |
| L3101-03 | CELP026-181Z | PEAKING COIL | 180 μ H | * |
| L3302 | CELP026-150Z | PEAKING COIL | 15 μ H | * |
| DIODE | | | | |
| D3151 | 1SS133-T2 | SI.DIODE | | * |
| D3156-58 | 1SS133-T2 | SI.DIODE | | * |
| D3301 | 1SS133-T2 | SI.DIODE | | * |
| D3302-03 | RH1S-T3 | SI.DIODE | | * |
| TRANSISTOR | | | | |
| Q3101-03 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q3104-06 | 2SC4544-C1 | SI.TRANSISTOR | | * |
| Q3153 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q3154 | 2PA1015(YG)-T | SI.TRANSISTOR | | * |
| Q3301 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q3302 | 2PA1015(YG)-T | SI.TRANSISTOR | | * |
| Q3303 | 2SC1906-T | SI.TRANSISTOR | | * |
| Q3304-05 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q3306 | 2PA1015(YG)-T | SI.TRANSISTOR | | * |
| Q3307 | 2SA1837 | SI.TRANSISTOR | | * |
| Q3308 | 2SC4793 | SI.TRANSISTOR | | * |
| OTHERS | | | | |
| FR3330 | QRH017J-561M | F R | 560 Ω 1W J | * |
| K3301-04 | CE41492-001Z | CHOKE COIL | | * |
| SK3001 | CE42535-001J1 | CRT SOCKET | | * |

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FRONT CONTROL PW BOARD ASS'Y (SJD-8001A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|-----------------|--------------------|-------|
| CAPACITOR | | | | |
| C8003 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C8004 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C8005 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C8901 | QF29040-474N | MF CAP. | 0.47 μ F | * |
| COIL | | | | |
| L8001 | CE41832-001 | LEAD CORE | | * |
| L8002-03 | CELP017-5R6Y | PEAKING COIL | 5.6 μ H | * |
| L8010-11 | CELP017-270Y | PEAKING COIL | 27 μ H | * |
| L8012 | CE41832-001 | LEAD CORE | | * |
| DIODE | | | | |
| D8007 | P1201 | C.D.S. | | * |
| D8008 | 1SS133-T2 | SI.DIODE | | * |
| D8009 | SLR-342MG-T16 | L.E.D.(GRN) | | * |
| D8010 | SPR-39MVWF | L.E.D. | | * |
| D8011 | 1SS133-T2 | SI.DIODE | | * |
| D8012 | SLR-342DU-T16 | L.E.D.(ORG) | | * |
| D8013 | SLR-342YY-T16 | L.E.D.(YLW) | | * |
| D8014 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| TRANSISTOR | | | | |
| Q8001 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q8002 | DTC144ES-T | DIGI.TRANSISTOR | | * |
| Q8003-04 | DTA144ES-T | DIGI.TRANSISTOR | | * |
| IC | | | | |
| IC8001 | TFMS5380ESN | IFR DETECT UNIT | | * |
| OTHERS | | | | |
| | CM36548-001-E | LED HOLDER | | * |
| | CM35921-004-H | CDS HOLDER | | * |
| CN8005 | CHC108N-25T-A | FFC CONNECTOR | | * |
| F8901 | QMF5102-3R15J1 | FUSE | 3.15A | * |
| J8001 | QMS3004-C01 | HEADPHONE JACK | | * |
| J8002 | CEMN087-001 | PIN JACK | | * |
| LF8901 | CELF012-001J7 | LINE FILTER | | * |
| S8001 | QSP1A11-C18Z | PUSH SWITCH | INSTALL | * |
| S8002 | QSP1A11-C18Z | PUSH SWITCH | CH ∇ (DOWN) | * |
| S8003 | QSP1A11-C18Z | PUSH SWITCH | CH Δ (UP) | * |
| S8004 | QSP1A11-C18Z | PUSH SWITCH | VOL(-) | * |
| S8005 | QSP1A11-C18Z | PUSH SWITCH | VOL(+) | * |
| S8901 | QSP4K21-C01 | PUSH SWITCH | MAIN POWER | * |

DOLBY PW BOARD ASS'Y (SJB0D001A(U))

| Symbol No. | Part No. | Part Name | Description | Local |
|------------------|---------------|-----------|---------------------|-------|
| RESISTOR | | | | |
| R0109 | QRD149J-4R7S | C R | 4.7 Ω 1/4W J | J |
| R0120-21 | QRD149J-4R7S | C R | 4.7 Ω 1/4W J | J |
| R0901 | QRG029J-470A | OM R | 47 Ω 2W J | J |
| R0904 | QRD149J-121S | C R | 120 Ω 1/4W J | J |
| CAPACITOR | | | | |
| C0101 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0102 | NCT03CH-680AY | CHIP CAP. | 68 p F 1600V H | H |
| C0103 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0104 | NCB21HK-473AY | CHIP CAP. | 0.047 μ F 50V K | K |
| C0105 | NCB21HK-223AY | CHIP CAP. | 0.022 μ F 50V K | K |
| C0106 | NCB21HK-102AY | CHIP CAP. | 1000 p F 50V K | K |
| C0107 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0108 | NCB21HK-473AY | CHIP CAP. | 0.047 μ F 50V K | K |

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| Symbol No. | Part No. | Part Name | Description | Local |
|------------------|---------------|-----------------|---------------------|-------|
| CAPACITOR | | | | |
| C0109 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0110 | NCT03CH-680AY | CHIP CAP. | 68 p F 1600V H | H |
| C0111 | NCB21HK-473AY | CHIP CAP. | 0.047 μ F 50V K | K |
| C0112-14 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0115 | NCB21HK-473AY | CHIP CAP. | 0.047 μ F 50V K | K |
| C0116 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μ F | * |
| C0117 | NCB21HK-103AY | CHIP CAP. | 0.01 μ F 50V K | K |
| C0118 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | M |
| C0119 | NCB21EK-563AY | CHIP CAP. | 0.056 μ F 25V K | K |
| C0120 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | M |
| C0122-23 | NCT03CH-100AY | CHIP CAP. | 10 p F 1600V H | H |
| C0124 | NCB21HK-103AY | CHIP CAP. | 0.01 μ F 50V K | K |
| C0125 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | M |
| C0126 | NCB21HK-103AY | CHIP CAP. | 0.01 μ F 50V K | K |
| C0127 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | M |
| C0128 | NCB21HK-103AY | CHIP CAP. | 0.01 μ F 50V K | K |
| C0130 | NCF21CZ-105AY | CER.CAPACITOR-M | 1 μ F | * |
| C0131-32 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0133-34 | QFLC1HK-102MZ | M CAP. | 1000 p F 50V K | K |
| C0135 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0136 | NCF21CZ-105AY | CER.CAPACITOR-M | 1 μ F 16V Z | Z |
| C0137 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0138-39 | QFLC1HK-102MZ | M CAP. | 1000 p F 50V K | K |
| C0140-42 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0151 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0201-02 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0203-04 | NCT03CH-470AY | CHIP CAP. | 47 p F 1600V H | H |
| C0205 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0206 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0251-52 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0253-54 | NCT03CH-470AY | CHIP CAP. | 47 p F 1600V H | H |
| C0255 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0256 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0304-05 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0401 | QETN1CM-226Z | E CAP. | 22 μ F 16V M | M |
| C0402 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0403-04 | NCB21HK-272AY | CHIP CAP. | 2700 p F 50V K | K |
| C0405-06 | QETN1HM-225Z | E CAP. | 2.2 μ F 50V M | M |
| C0407-10 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μ F | * |
| C0412 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | M |
| C0431 | QETN1CM-226Z | E CAP. | 22 μ F 16V M | M |
| C0433-34 | NCB21HK-272AY | CHIP CAP. | 2700 p F 50V K | K |
| C0435 | QETN1HM-225Z | E CAP. | 2.2 μ F 50V M | M |
| C0436-39 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μ F | * |
| C0453 | QETN1HM-225Z | E CAP. | 2.2 μ F 50V M | M |
| C0501-02 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0503-04 | NCT03CH-100AY | CHIP CAP. | 10 p F 1600V H | H |
| C0505 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0507-08 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0531 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0532 | NCT03CH-100AY | CHIP CAP. | 10 p F 1600V H | H |
| C0536 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0551 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0553 | NCT03CH-100AY | CHIP CAP. | 10 p F 1600V H | H |
| C0555 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0556 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0557-58 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0601-04 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | M |
| C0605 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | M |
| C0606 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | M |
| C0607 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | M |
| C0701-05 | NCB21HK-222AY | CHIP CAP. | 2200 p F 50V K | K |
| C0901-04 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | M |
| C0905-06 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μ F | * |

AV-28WX1EP

AV-28WX1EP

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|------------------|-------------|-------|
| COIL | | | | |
| L0001-02 | CE40344-4R7YL | INDUCTOR | | |
| L0701-05 | CELP026-100Z | PEAKING COIL | 10 μ H | |
| L0706 | CE41832-001 | LEAD CORE | | |
| DIODE | | | | |
| D0104 | MA141WK-X | SI.DIODE | | |
| D0201 | MA3062-X | ZENER DIODE | | |
| D0501-02 | MA3150(M)-X | ZENER DIODE | | |
| D0503 | MA3056-X | ZENER DIODE | | |
| D0532 | MA3150(M)-X | ZENER DIODE | | |
| D0552 | MA3150(M)-X | ZENER DIODE | | |
| TRANSISTOR | | | | |
| Q0201 | DTC144EK-X | DIGI.TRANSISTOR | | |
| Q0202-03 | 2SA1037K(QR)-X | SI.TRANSISTOR | | |
| Q0301-02 | DTC144EK-X | DIGI.TRANSISTOR | | |
| Q0501 | 2SA1162(YG)-X | SI.TRANSISTOR | | |
| Q0502-03 | DTC323TK-X | DIGI.TRANSISTOR | | |
| Q0531 | 2SA1162(YG)-X | SI.TRANSISTOR | | |
| Q0532 | DTC323TK-X | DIGI.TRANSISTOR | | |
| Q0551 | 2SA1162(YG)-X | SI.TRANSISTOR | | |
| Q0552-53 | DTC323TK-X | DIGI.TRANSISTOR | | |
| Q0601 | 2SK105(E)-T | F.E.T. | | |
| Q0602 | 2SC2655(Y)-T | SI.TRANSISTOR | | |
| IC | | | | |
| IC0101 | SAA7366T-X | I.C.(MONO-ANA) | | |
| IC0102 | M37471M8-349SP | I.C.(MICRO-COMP) | | |
| IC0103 | MN1382-Q-X | I.C.(MONO-ANA) | | |
| IC0104 | TC9332F-010 | I.C.(DIGI-MOS) | | |
| IC0105 | TC7W74F-X | I.C.(ECL-LOGIC) | | |
| IC0106 | TMS57002DPHA | I.C.(MICRO-PROC) | | |
| IC0108-09 | TDA1386T-X | I.C.(MONO-ANA) | | |
| IC0111 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0201 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0251 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0301-02 | TC4052BF-W | I.C.(DIGI-MOS) | | |
| IC0401 | TDA7315D | I.C.(DIGI-OTHER) | | |
| IC0411 | AN78L09-Y | I.C.(MONO-ANA) | | |
| IC0431 | TDA7315D | I.C.(DIGI-OTHER) | | |
| IC0501 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0551 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0901-02 | AN78L05-Y | I.C.(MONO-ANA) | | |
| OTHERS | | | | |
| CP0601 | ICP-N10-Y | I.C.PROTECT | | |
| J0001 | CEMN036-004 | PIN JACK | | |
| J0002 | CEMN061-001 | PIN JACK | | |
| X0101 | CST8.00MT | CER.RESONATOR | | |
| X0102 | CE42533-001 | CRYSTAL | | |

AV SEL. & MSP PW BOARD ASS'Y (SJD0S001A-U2)

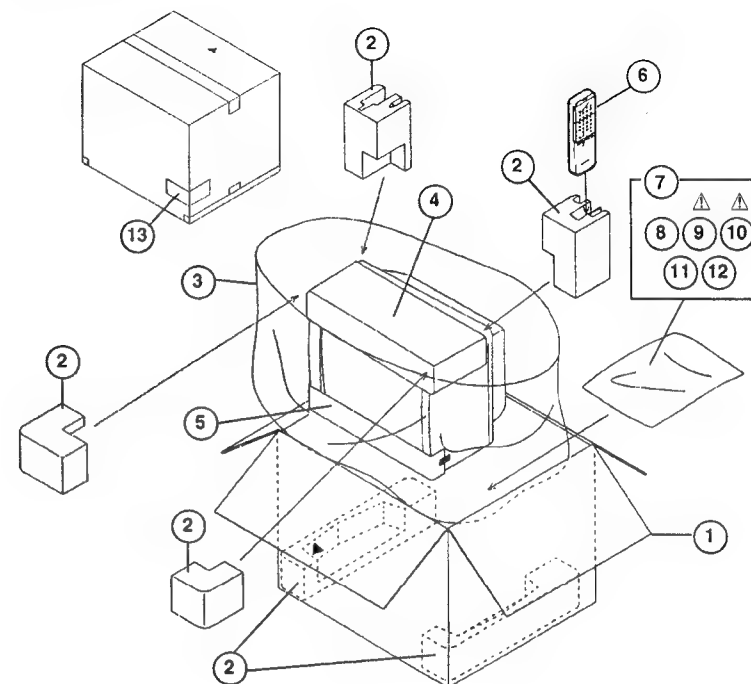
| Symbol No. | Part No. | Part Name | Description | Local |
|------------------|---------------|--------------|--------------------|-------|
| RESISTOR | | | | |
| R0104 | QRG019J-101S | OM R | 100 Ω 1W J | * |
| R0206 | QRG019J-101S | OM R | 100 Ω 1W J | * |
| R0612-13 | QRB049J-473 | NETW.R | 4.7k Ω | * |
| CAPACITOR | | | | |
| C0101 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0102 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0103 | QETN1CM-227Z | E CAP. | 220 μ F 16V M | * |
| C0104 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0105-08 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0115-16 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0117-18 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C0201 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0202 | QFLC1HK-103MZ | M CAP. | 0.01 μ F 50V K | * |
| C0203-04 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0206 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0207-08 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0215-16 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0217-18 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C0301 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0304-05 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0401 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0402 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0403 | QEN61CM-106Z | BP E CAP. | 10 μ F 16V M | * |
| C0404 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0405 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0521 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0601-02 | QCT25CH-2R0Z | C CAP. | 2.0 μ F 50V J | * |
| C0605-06 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0607-08 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0610 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0613 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0614-15 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0616 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0617-18 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0635-36 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0637 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0638-39 | QEN61HM-105Z | BP E CAP. | 1 μ F 50V M | * |
| C0641 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0643 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0645-48 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0650 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| COIL | | | | |
| L0101-04 | CELP017-5R6Y | PEAKING COIL | 5.6 μ H | * |
| L0105 | CE41832-001 | LEAD CORE | | * |
| L0201-04 | CELP017-5R6Y | PEAKING COIL | 5.6 μ H | * |
| L0205 | CE41832-001 | LEAD CORE | | * |
| L0504 | CELP027-180Z | PEAKING COIL | 18 μ H | * |
| L0505 | CELP027-220Z | PEAKING COIL | 22 μ H | * |
| L0606 | CELC005-2R5J7 | CHOKE COIL | | * |
| L0607 | CELP026-100Z | PEAKING COIL | 10 μ H | * |
| L0608 | CELC005-2R5J7 | CHOKE COIL | | * |
| DIODE | | | | |
| D0101 | MTZJ5.1(A)-T2 | ZENER DIODE | | * |
| D0201 | MTZJ4.7(A)-T2 | ZENER DIODE | | * |
| D0301 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0304-05 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0401-02 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0403 | MTZJ10(A)-T2 | ZENER DIODE | | * |

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AV-28WX1EP

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|-------------------|--------------------|-------|
| TRANSISTOR | | | | |
| Q0101-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0103-04 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| Q0105 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0201 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0202 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0203-04 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| Q0401-03 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0503-04 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0601 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q0602 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0603 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| I C | | | | |
| IC0401 | TEA6416 | I.C. (MONO-ANA) | | * |
| IC0601 | MSP3410B-PP-F7 | I.C. (DIGI-OTHER) | | * |
| IC0602 | BA4558 | I.C. (MONO-ANA) | | * |
| IC0603 | TC4062BP | I.C. (DIGI-MOS) | | * |
| OTHERS | | | | |
| J0001-02 | CE40529-009J1 | 21 PIN SOCKET | | * |
| R0403 | QR20054-470M | F R | 47 Ω 1/4W J | * |
| X0601 | CE42546-001 | CRYSTAL | | * |

PACKING



PACKING PARTS LIST

| Ref.No. | Part No. | Part Name | Description | Local |
|---------|----------------|---------------|-------------------------------|-------|
| 1 | AEM1002-044-E | PACKING CASE | (EURO BOX) | * |
| 2 | CP11547-008-E | CUSHION ASSY | 6pcs in 1set | * |
| 3 | AEM1004-006-E | SET COVER | | * |
| 4 | CP40193-009-E | CUSHION SHEET | | * |
| 5 | CP40193-010-E | CUSHION SHEET | | * |
| 6 | RM-C782-1E | REMOCON UNIT | | * |
| 7 | AEM3021-001-E | POLY BAG | | * |
| 8 | 2832WX1EP-HSAE | S.DIAGRAM | | * |
| 9 | CQ40224-001-E | INST BOOK | For GBR/GER/FRA/NED/ITA/ESP * | * |
| 10 | CQ40225-001-E | INST BOOK | For FIN/NOR/DEN/SWE/POR * | * |
| 11 | BT-20066A-E | ADDRESS CARD | (1295) | * |
| 12 | CM22966-004-E | DEC. SHEET | | * |
| 13 | AEM1038-023-E | EURO LABEL | | * |

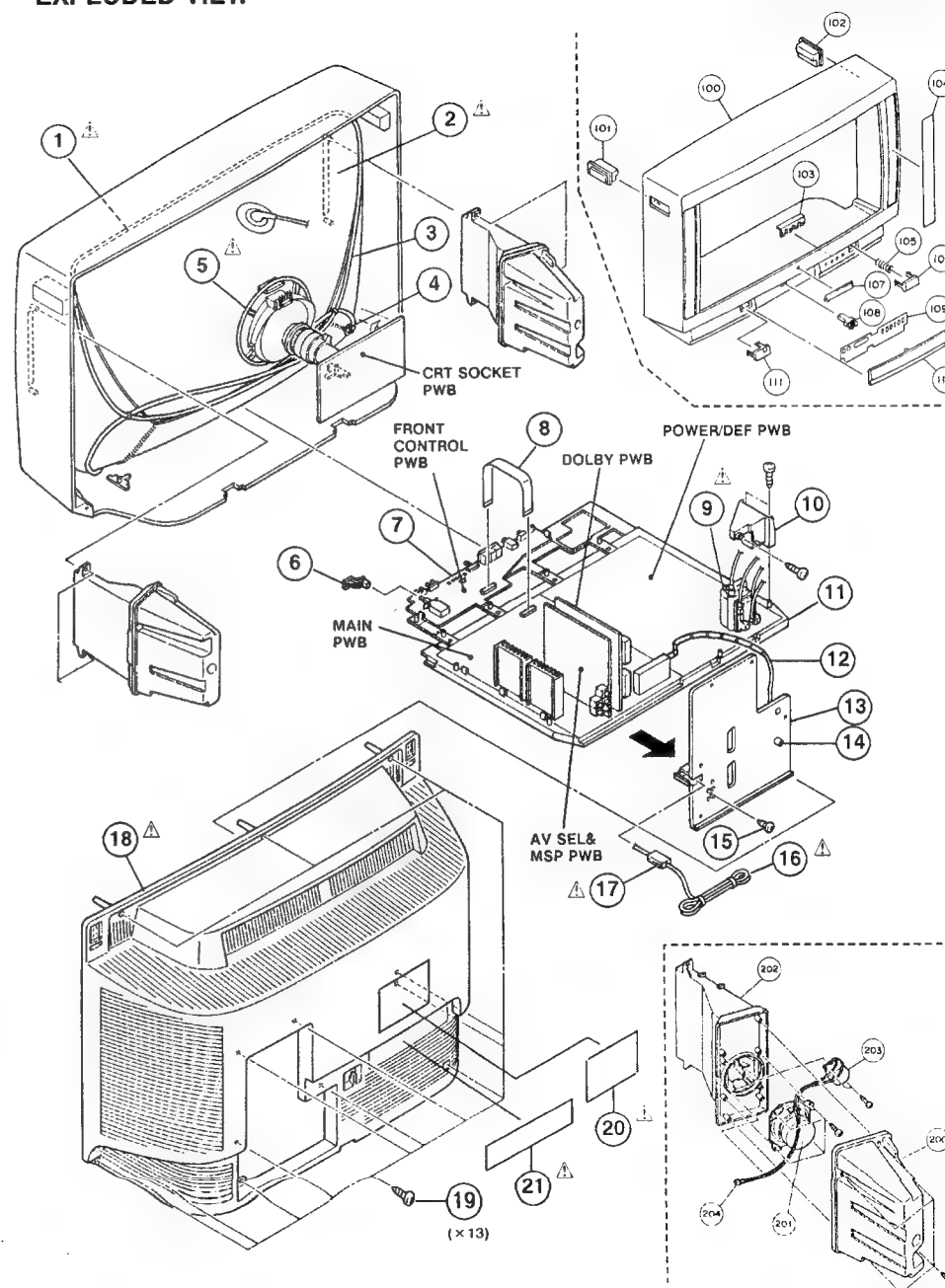
EXPLODED VIEW PARTS LIST

AV-32WX1EP

| Ref.No. | Part No. | Part Name | Description | Local |
|---------|----------------|------------------|----------------------------|-------|
| 1 | CELD062-001J2 | DEG COIL | L01 | * |
| 2 | W76SF031X14 | CRT(1TC) | V01(Inc.DY,PC MAGNET,WED.) | * |
| 3 | CHGB0018-0A-N | BRAIDED ASSY | | * |
| 4 | CHGB0026-0A | BRAIDED SUB ASSY | (×2) | * |
| 5 | CELD904-001 | ROTATION COIL | L03 | * |
| 6 | CM36311-001 | KNOB CAP | | * |
| 7 | CM12799-A04 | CONTROL BASE | | * |
| 8 | CHFB125-12BD | FFC WIRE | | * |
| 9 | CETH015-00AJ1 | H.V.TRANSF. | (SERVICE)T2551 | * |
| 10 | CM23076-B01-E | HVT HOLDER | | * |
| 11 | CM12800-A02-KD | CHASSIS BASE | | * |
| 12 | CHGY0017-0A-YS | ANTENNA CABLE | | * |
| 13 | CM12813-B01-E | AV TERM BOARD | | * |
| 14 | CE42112-002 | PALJ CONNECTOR | | * |
| 15 | SBSB3012M | TAPPING SCREW | For AV TERM BOARD | * |
| 16 | AEEMP001-185 | POWER CORD | | * |
| 17 | CM46618-A01-E | POWER CORD CLAMP | | * |
| 18 | CM12737-003-KD | REAR COVER | | * |
| 19 | GBSA4016N | TAPPING SCREW | (×13)For REAR COVER | * |
| 20 | CM23048-002-E | RATING LABEL | For GBR/GER/ITA | * |
| 21 | CM23049-002-E | RATING LABEL | For GBR/FRA/ESP | * |
| 100 | CM12587-B0J-KD | FRONT CAB1.ASSY | Inc.No.101~111 | * |
| 101 | CM35865-00E | INSULATOR(R) | (SERVICE) | * |
| 102 | CM35865-00F | INSULATOR(L) | (SERVICE) | * |
| 103 | CM36223-001 | LED LENS | | * |
| 104 | CM36172-00A-S | SP NET ASSY | (×2) | * |
| 105 | CM30861-069 | SPRING | | * |
| 106 | CM36225-001 | POWER KNOB | | * |
| 107 | CM48125-001 | JVC MARK | | * |
| 108 | CM48229-00A | DOOR LATCH | | * |
| 109 | CM36224-A11 | OPERATION SHEET | | * |
| 110 | CM22898-006 | DOOR | (SERVICE) | * |
| 111 | CM48076-A01 | CDS WINDOW | | * |
| 200 | CM12878-A01-E | DOME BOX | (×2) | * |
| 201 | CEBSF10P-04KJ6 | SPEAKER(WO) | (×2)SP01,SP02 | * |
| 202 | 2528MXSP-SWE | DOME SP ASSY | (×2)Inc.No.203,204 | * |
| 203 | CEBSS03K-01KJ2 | SPEAKER | (×2) | * |
| 204 | CHGS0057-0A-N | S.P WIRE ASSY | (×2) | * |

EXPLODED VIEW

AV-32WX1EP



PRINTED WIRING BOARD PARTS LIST

AV-32WX1EP

MAIN PW BOARD ASS'Y (SJD-1002A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|----------------|-----------------------|-------|
| VARIABLE RESISTOR | | | | |
| R1055 | QVPE611-202HZ | V R(L V LEVEL) | 2k Ω B | |
| RESISTOR | | | | |
| R1250-51 | QRV141F-1502AY | MF R | 15k Ω 1/4W F | |
| R1252 | QRV141F-4702AY | MF R | 47k Ω 1/4W F | |
| R1253 | QRV141F-1802AY | MF R | 18k Ω 1/4W F | |
| R1254 | QRV141F-4702AY | MF R | 47k Ω 1/4W F | |
| R1263 | QRV141F-2702AY | MF R | 27k Ω 1/4W F | |
| R1511 | QRV141F-1502AY | MF R | 15k Ω 1/4W F | |
| R1516 | QRV141F-2211AY | MF R | 2.21k Ω 1/4W F | |
| R1760 | QRB039J-103 | NETW.R | 10k Ω | |
| R1781 | QRB039J-471 | NETW.R | 470 Ω | |
| R1782 | QRB049J-103 | NETW.R | 10k Ω | * |
| R1783 | QRB069J-103 | NETW.R | 10k Ω | * |
| R1784 | QRB089J-103 | NETW.R | 10k Ω | * |
| CAPACITOR | | | | |
| C1002 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1003 | QETN1CM-227Z | E CAP. | 220 μ F 16V M | * |
| C1004-05 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1006 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1007 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1008 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1010 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1020 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1041 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1043 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1050 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1052 | QAT3110-100A | TRIM CAP. | 10 pF | * |
| C1055 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1056 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | * |
| C1059 | QAT3110-200A | TRIM CAP. | 20 pF | * |
| C1060-61 | QCT25CH-120Z | C CAP. | 12 pF 50V J | * |
| C1062 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | * |
| C1065 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1071 | QETN1HM-336Z | E CAP. | 33 μ F 50V M | * |
| C1101 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1103 | QCT25CH-820Z | C CAP. | 82 pF 50V J | * |
| C1140 | QETN1HM-335Z | E CAP. | 3.3 μ F 50V M | * |
| C1142 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1143 | QETN1HM-474Z | E CAP. | 0.47 μ F 50V M | * |
| C1144 | QETN1HM-335Z | E CAP. | 3.3 μ F 50V M | * |
| C1201 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1202 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1203 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1204 | QFLC1HJ-103MZ | M CAP. | 0.01 μ F 50V J | * |
| C1205 | QEN61HM-105Z | BP E CAP. | 1 μ F 50V M | * |
| C1206 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1207 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1208 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1209 | QFLC1HJ-473MZ | M CAP. | 0.047 μ F 50V J | * |
| C1210 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1211-13 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1214 | QEN61CM-106Z | BP E CAP. | 10 μ F 16V M | * |
| C1217 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1219 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1220 | QCT25CH-390Z | C CAP. | 39 pF 50V J | * |
| C1222 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 25V Z | * |
| C1223 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|------------|---------------|-----------|---------------------|-------|
| CAPACITOR | | | | |
| C1224 | QFLC1HJ-332MZ | M CAP. | 3300 pF 50V J | * |
| C1226 | QCT25CH-150Z | C CAP. | 15 pF 50V J | * |
| C1227-28 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1229 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1230-31 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | * |
| C1232 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1233 | QFV71HJ-224MZ | TF CAP. | 0.22 μ F 50V J | * |
| C1234 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1235 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1236 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1240 | QFLC1HJ-103MZ | M CAP. | 0.01 μ F 50V J | * |
| C1241 | QCT25CH-820Z | C CAP. | 82 pF 50V J | * |
| C1242 | QCT25CH-220Z | C CAP. | 22 pF 50V J | * |
| C1243 | QCT25CH-221Z | C CAP. | 220 pF 50V J | * |
| C1244 | QCT25CH-330Z | C CAP. | 33 pF 50V J | * |
| C1245 | QAT3110-300A | TRIM CAP. | 30 pF | * |
| C1246 | QCT25CH-5R0Z | C CAP. | 5.0 pF 50V J | * |
| C1247-49 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1250 | QCT25CH-101Z | C CAP. | 100 pF 50V J | * |
| C1301 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1401 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1501 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1502 | QFLC1HJ-472MZ | M CAP. | 4700 pF 50V J | * |
| C1503 | QFLC1HJ-222MZ | M CAP. | 2200 pF 50V J | * |
| C1504 | QFLC1HJ-682MZ | M CAP. | 6800 pF 50V J | * |
| C1505 | QETN2AM-106Z | E CAP. | 10 μ F 100V M | * |
| C1506 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | * |
| C1507 | QFLC1HJ-122MZ | M CAP. | 1200 pF 50V J | * |
| C1601 | QFLC1HJ-183MZ | M CAP. | 0.018 μ F 50V J | * |
| C1802 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1803 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1804 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1605 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C1610 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C1612 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1613 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1614-15 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1617 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C1618 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1619-20 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1621-24 | QFV71HJ-684MZ | TF CAP. | 0.68 μ F 50V J | * |
| C1625-26 | QETN1EM-228 | E CAP. | 2200 μ F 25V M | * |
| C1827 | QETN1CM-108Z | E CAP. | 1000 μ F 16V M | * |
| C1701 | QETN1AM-107Z | E CAP. | 100 μ F 10V M | * |
| C1702 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1703-04 | QCT25CH-150Z | C CAP. | 15 pF 50V J | * |
| C1705 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1709 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1710 | QETN1EM-476Z | E CAP. | 47 μ F 25V M | * |
| C1711 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1712 | QETN1HM-225Z | E CAP. | 2.2 μ F 50V M | * |
| C1713 | QETN1AM-227Z | E CAP. | 220 μ F 10V M | * |
| C1714 | QFLC1HJ-333MZ | M CAP. | 0.033 μ F 50V J | * |
| C1715 | QEB61HM-104MZ | E CAP. | 0.1 μ F 50V M | * |
| C1716 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1802 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| C1805-06 | QCT25CH-150Z | C CAP. | 15 pF 50V J | * |
| C1808 | QFLC1HJ-223MZ | M CAP. | 0.022 μ F 50V J | * |
| C1810 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1811 | QETN0JM-227Z | E CAP. | 220 μ F 6.3V M | * |
| C1812 | QCZ0120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C1813 | QETN1CM-228Z | E CAP. | 22 μ F 16V M | * |
| C1816-18 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C1820 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|--------------------|----------------|------------------|-------------------|-------|
| CAPACITOR | | | | |
| C1821 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C1822 | QFV71HJ-104MZ | TF CAP. | 0.1 μ F 50V J | * |
| TRANSFORMER | | | | |
| T1010 | CELT022-001J1 | FTZ TRAP TRANSF. | | * |
| T1050 | CELT001-303 | C.WAVE TRANSF. | | * |
| T1051 | CELT001-306 | C.WAVE TRANSF. | | * |
| T1201 | CE41925-001 | DELAY LINE | | * |
| COIL | | | | |
| L1001 | CELP026-221Z | PEAKING COIL | 220 μ H | * |
| L1002-03 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1020-21 | CELP026-1R5Z | PEAKING COIL | 1.5 μ H | * |
| L1022 | CELP026-2R2Z | PEAKING COIL | 2.2 μ H | * |
| L1040-41 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1050-53 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1070 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1071 | CELP026-5R6Z | PEAKING COIL | 5.6 μ H | * |
| L1101 | CELP026-8R2Z | PEAKING COIL | 8.2 μ H | * |
| L1102 | CELP027-120Z | PEAKING COIL | 12 μ H | * |
| L1103 | CELP026-120Z | PEAKING COIL | 12 μ H | * |
| L1104 | CELP026-5R6Z | PEAKING COIL | 5.6 μ H | * |
| L1201 | CELP027-330Z | PEAKING COIL | 33 μ H | * |
| L1702 | CELP037-5R6Z | PEAKING COIL | 5.6 μ H | * |
| L1801 | CELP026-4R7Z | PEAKING COIL | 4.7 μ H | * |
| L1802 | CELP026-3R3Z | PEAKING COIL | 3.3 μ H | * |
| DIODE | | | | |
| D1010 | MTZJ10(B)-T2 | ZENER DIODE | | * |
| D1020-21 | 1SS85-T5 | SI.DIODE | | * |
| D1050-51 | 1SS85-T5 | SI.DIODE | | * |
| D1201 | 1SS133-T2 | SI.DIODE | | * |
| D1210 | 1SS133-T2 | SI.DIODE | | * |
| D1221-22 | 1SS133-T2 | SI.DIODE | | * |
| D1301-05 | 1SS133-T2 | SI.DIODE | | * |
| D1401-04 | 1SS133-T2 | SI.DIODE | | * |
| D1501 | 1SS133-T2 | SI.DIODE | | * |
| D1503 | 1SS146-T2 | SI.DIODE | | * |
| D1504 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| D1505 | BYD33G-T3 | SI.DIODE | | * |
| D1506 | MTZJ7.5S-T2 | ZENER DIODE | | * |
| D1507 | MTZJ4.3(A)-T2 | ZENER DIODE | | * |
| D1509 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| D1610-11 | 1SS133-T2 | SI.DIODE | | * |
| D1614 | 1SS133-T2 | SI.DIODE | | * |
| D1616 | 1SS133-T2 | SI.DIODE | | * |
| D1617 | MTZJ5.1(B)-T2 | ZENER DIODE | | * |
| D1618-21 | MTZJ27(B)-T2 | ZENER DIODE | | * |
| D1701 | MA700-T2 | SI.DIODE | | * |
| D1702 | MTZJ5.1(A)-T2 | ZENER DIODE | | * |
| D1703 | 1SS146-T2 | SI.DIODE | | * |
| D1704 | 1SS133-T2 | SI.DIODE | | * |
| D1802-03 | 1SS133-T2 | SI.DIODE | | * |
| TRANSISTOR | | | | |
| Q1010-11 | 2SC5083(L-P)-T | SI. TRANSISTOR | | * |
| Q1012-13 | 2SC1906-T | SI. TRANSISTOR | | * |
| Q1020 | 2SC1959(Y)-T | SI. TRANSISTOR | | * |
| Q1050-51 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1080 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1101 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1102 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1103 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1104 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1106 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1107 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|------------------|--------------------|-------|
| TRANSISTOR | | | | |
| Q1108 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1109-10 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1120-24 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1201 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1202 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1203 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1204-05 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1206 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1207 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1210 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1211-13 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1301-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1303 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1401 | 2SK301(Q)-T | F.E.T. | | * |
| Q1402 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q1501 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1502 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1601-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1610-11 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1612-13 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1614 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1615-16 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| Q1704-05 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1706 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q1801-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q1803 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q1804 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| IC | | | | |
| IC1010 | TA8865BN | I.C.(MONO-ANA) | | * |
| IC1201 | TA8376A | I.C.(MONO-ANA) | | * |
| IC1202 | TA84665 | I.C.(MONO-ANA) | | * |
| IC1203 | TA8395/N3 | I.C.(MONO-ANA) | | * |
| IC1204 | MC14538BCP | I.C.(DIGI-MOS) | | * |
| IC1205 | UPC324C | I.C.(MONO-ANA) | | * |
| IC1601-02 | TA2052V | I.C.(MONO-ANA) | | * |
| IC1701 | M37270MF-060SP | I.C. | | * |
| IC1702 | AT24C1628WX1EP | I.C.(EP-ROM) | (SERVICE) | * |
| IC1703 | AT24C16-10PC | I.C.(EP-ROM) | | * |
| IC1704 | L78LR05E-MA | I.C.(MONO-ANA) | | * |
| IC1801 | CF72417 | I.C.(DIGI-MOS) | | * |
| IC1802 | CF70206 | I.C.(DIGI-MOS) | | * |
| IC1803 | TC4053BP | I.C.(DIGI-MOS) | | * |
| OTHERS | | | | |
| CF1010 | FTP40.40MF | CERAMIC FILTER | | * |
| CF1011 | MKT40MA100P | CERAMIC FILTER | | * |
| CF1012 | MKT40.9MA100P | CERAMIC FILTER | | * |
| CF1100 | TPS5.5MW | CERAMIC FILTER | | * |
| CF1140 | CSB503F30-T2 | CER. RESONATOR | | * |
| CF1701 | CST8.00MTW | CER. RESONATOR | | * |
| CN1005 | CHC108N-25T-AE | FFC CONNECTOR | | * |
| CP1010 | ICP-N5-Y | I.C.PROTECT | | * |
| K1001 | CE41433-001Z | BEADS CORE | | * |
| K1701 | CE41433-001Z | BEADS CORE | | * |
| R1609 | QRZ0054-470M | F R | | * |
| S1201 | QSL4A13-C03Z | LEVER SWITCH | 47 Ω 1/4W J | * |
| SF1010 | CE42573-701 | SAW FILTER | | * |
| SF1011 | CE42574-702 | SAW FILTER | | * |
| SF1012 | CE42606-701 | SAW FILTER | | * |
| TH1201-02 | ERT-D2ZHL503S | N.THERMISTOR | | * |
| TU1001 | CEEK471-A01 | TUNER | | * |
| X1201 | CE41115-001J2 | CRYSTAL | | * |
| X1202 | CE41651-001Z | CRYSTAL | | * |
| X1801 | CE41257-001 | CRYSTAL | | * |

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POWER/DEF PW BOARD ASS'Y (SJD-2002A-U2)

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------------------|----------------|-----------|-----------------------|-------|
| R E S I S T O R | | | | |
| R2421 | QRV141F-2201AY | MF R | 2.2k Ω 1/4W F | * |
| R2425 | QRG019J-2215 | OM R | 220 Ω 1W J | * |
| R2515-16 | QRG029J-272 | OM R | 2.7k Ω 2W J | * |
| R2524 | QRQ074K-3R3 | UNF R | 3.3 Ω 7W E | * |
| R2529 | QRG039J-270A | OM R | 27 Ω 3W J | * |
| R2530 | QRG029J-103 | OM R | 10k Ω 2W J | * |
| △ R2555 | QRX029J-1R2 | MF R | 1.2 Ω 2W J | * |
| △ R2556 | QRX029J-1R8 | MF R | 1.8 Ω 2W J | * |
| R2582 | QRC122K-103 | COMP. R | 10k Ω 1/2W K | * |
| R2902 | QRF104K-3R9 | UNF R | 3.9 Ω 1/10W K | * |
| R2911 | QRG039J-393 | OM R | 39k Ω 3W J | * |
| R2912 | QRG039J-473 | OM R | 47k Ω 3W J | * |
| R2914 | QRM059J-R22 | MP R | 0.22 Ω 5W J | * |
| R2951 | QRF074J-102 | UNF R | 1k Ω 7W J | * |
| R2953 | QRX039J-6R8 | MF R | 6.8 Ω 3W J | * |
| R2954 | QRG029J-270 | OM R | 27 Ω 2W J | * |
| R2956 | QRG029J-123 | OM R | 12k Ω 2W J | * |
| △ R2991 | QRZ0057-825 | C R | 8.2M Ω 1W J | * |
| C A P A C I T O R | | | | |
| C2422 | QFV71HJ-474MZ | TF CAP. | 0.47 μF 50V J | * |
| C2423 | QFLC2AJ-823MZ | M CAP. | 0.082 μF 100V J | * |
| C2424 | QFLC2AJ-663MZ | M CAP. | 0.056 μF 100V J | * |
| C2425 | QFLC2AJ-393MZ | M CAP. | 0.039 μF 100V J | * |
| C2429 | QFV71HJ-474MZ | TF CAP. | 0.47 μF 50V J | * |
| C2454 | QFLC1HK-823MZ | M CAP. | 0.082 μF 50V K | * |
| C2455 | QFLC2AJ-103MZ | M CAP. | 0.01 μF 100V J | * |
| C2456-57 | QFV71HJ-104MZ | TF CAP. | 0.1 μF 50V J | * |
| C2513 | QETN2CM-105Z | E CAP. | 1 μF 160V M | * |
| △ C2521 | QFZ0122-302S | MPP CAP. | 0.03 μF | * |
| △ C2522 | QFZ0117-1002S | MPP CAP. | 0.01 μF 1.4kVH ± 2.5% | * |
| △ C2523 | QFP32GJ-273M | PP CAP. | 0.027 μF 400V J | * |
| △ C2524 | QFM72DK-104M | M CAP. | 0.1 μF 200V K | * |
| △ C2526 | QFZ0119-684S | MPP CAP. | 0.68 μF 200V ± 3% | * |
| △ C2527 | QFZ0119-684S | MPP CAP. | 0.68 μF 200V ± 3% | * |
| C2528 | QETC2CM-475Z | E CAP. | 4.7 μF 160V M | * |
| C2529 | QFZ0128-393S | MPP CAP. | 0.039 μF | * |
| △ C2530 | QFZ0119-304S | MPP CAP. | 0.3 μF 200V ± 3% | * |
| △ C2531 | QFZ0119-204S | MPP CAP. | 0.2 μF 200V ± 3% | * |
| C2533 | QETM2CM-227 | E CAP. | 220 μF 160V M | * |
| C2541 | QETN1AM-107Z | E CAP. | 100 μF 10V M | * |
| C2542 | QETN1EM-476Z | E CAP. | 47 μF 25V M | * |
| C2545 | QEZ0195-475MZ | E CAP. | 4.7 μF 50V | * |
| C2546 | QFLC1HJ-104MZ | M CAP. | 0.1 μF 50V J | * |
| C2551 | QEN61HM-105Z | BP E CAP. | 1 μF 50V M | * |
| C2555 | QETN2EM-106Z | E CAP. | 10 μF 250V M | * |
| C2556 | QETB1EM-338 | E CAP. | 3300 pF 25V M | * |
| C2557 | QETC1JM-107Z | E CAP. | 100 μF 63V M | * |
| C2559 | QETN1CM-108Z | E CAP. | 1000 μF 16V M | * |
| C2561 | QCZ0122-102A | C CAP. | 1000 pF 2000V K | * |
| C2583 | QETC0JM-107Z | E CAP. | 100 μF 6.3V M | * |
| C2584 | QETN1CM-476Z | E CAP. | 47 μF 16V M | * |
| C2903 | QFZ9040-473N | MM CAP. | 0.047 μF | * |
| △ C2905 | QCZ9034-472A | C CAP. | 4700 pF FAC400V | * |
| △ C2906 | QCZ9034-472A | C CAP. | 4700 pF FAC400V | * |
| △ C2907 | QCZ9034-472A | C CAP. | 4700 pF FAC400V | * |
| C2909 | QEZ0167-227M | E CAP. | 220 μF 385V | * |
| C2911 | QCZ0122-391A | C CAP. | 390 pF 2000V K | * |
| C2915 | QCZ0122-271A | C CAP. | 270 pF 2000V K | * |
| C2918 | QETN1EM-227Z | E CAP. | 220 μF 25V M | * |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|------------------------------|----------------|-----------------|-----------------|-------|
| C A P A C I T O R | | | | |
| C2919 | QFLC1HJ-104MZ | M CAP. | 0.1 μF 50V J | * |
| C2920 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | * |
| C2923 | QETN1HM-105Z | E CAP. | 1 μF 50V M | * |
| C2924 | QFLC1HJ-102MZ | M CAP. | 1000 pF 50V J | * |
| C2951 | QEZ0203-227 | E CAP. | 220 μF 160V | * |
| C2952 | QETN1EM-108Z | E CAP. | 1000 μF 25V M | * |
| C2956 | QEN61CM-106Z | BP E CAP. | 10 μF 16V M | * |
| C2963 | QCZ0120-104MZ | C CAP. | 0.1 μF 25V Z | * |
| C2964 | QETN1AM-228Z | E CAP. | 2200 μF 10V M | * |
| C2965 | QCZ0120-104MZ | C CAP. | 0.1 μF 25V Z | * |
| C2966 | QETN1AM-227Z | E CAP. | 220 μF 10V M | * |
| C2973 | QETN1HM-475Z | E CAP. | 4.7 μF 50V M | * |
| C2975 | QETN1HM-105Z | E CAP. | 1 μF 50V M | * |
| C2978 | QETN1AM-228Z | E CAP. | 2200 μF 10V M | * |
| C2981 | QETN1EM-227Z | E CAP. | 220 μF 25V M | * |
| C2982 | QETN1HM-106Z | E CAP. | 10 μF 50V M | * |
| C2984 | QETN1HM-106Z | E CAP. | 10 μF 50V M | * |
| △ C2992 | QCZ9041-471A | C CAP. | 470 pF FAC400V | * |
| △ C2993 | QCZ9041-332A | C CAP. | 3300 pF FAC400V | * |
| T R A N S F O R M E R | | | | |
| T2511 | CE42034-002 | H.DRIVE TRANSF. | | * |
| T2521 | CE42549-001J1 | BRIGE COIL | | * |
| △ T2551 | CETH015-00AJ1 | H.V. TRANSF. | (SERVICE) | * |
| T2561 | CE42692-001J1 | DAF TRANSF. | | * |
| △ T2911 | CETS066-001J4 | SWITCH TRANSF. | | * |
| △ T2981 | QQT0147-001 | POWER TRANSF. | | * |
| C O I L | | | | |
| L2421 | CELC901-024J6 | HEATER CHOKE | | * |
| L2521 | CELL012-002J2 | LINEARITY COIL | | * |
| L2522 | CE42693-001J1 | CHOKE COIL | | * |
| L2541 | CE42567-001J1 | INJECTION COIL | | * |
| L2551 | CELC901-093J6 | HEATER CHOKE | | * |
| L2911 | CELC005-2R5J7 | CHOKE COIL | | * |
| L2951 | CELC901-046J6 | HEATER CHOKE | | * |
| L2953-54 | CELC057-1R0Z | CHOKE COIL | | * |
| D I O D E | | | | |
| D2421 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2422 | MTZJ24(B)-T2 | ZENER DIODE | | * |
| D2451-52 | 1SS133-T2 | SI DIODE | | * |
| D2453 | RD62E(B)-T2 | ZENER DIODE | | * |
| D2454 | MTZJ24(B)-T2 | ZENER DIODE | | * |
| D2455 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2511 | 1SS81-T5 | SI DIODE | | * |
| D2521 | BY228-20 | SI DIODE | | * |
| D2523 | BYW958-20 | SI DIODE | | * |
| D2524 | BYD33G-T3 | SI DIODE | | * |
| D2541 | MTZJ6.8(C)-T2 | ZENER DIODE | | * |
| D2542 | 1SS133-T2 | SI DIODE | | * |
| D2550-51 | BYD33G-T3 | SI DIODE | | * |
| D2552 | BYW958-20 | SI DIODE | | * |
| D2553 | BYD33D-T3 | SI DIODE | | * |
| D2554 | BYW958-20 | SI DIODE | | * |
| D2555 | MTZJ15(A)-T2 | ZENER DIODE | | * |
| D2556 | BYD33G-T3 | SI DIODE | | * |
| D2581 | MTZJ33(B)-T2 | ZENER DIODE | | * |
| D2582-84 | 1SS133-T2 | SI DIODE | | * |
| D2586 | MTZJ7.5(B)-T2 | ZENER DIODE | | * |
| D2588 | MTZJ15(B)-T2 | ZENER DIODE | | * |
| D2901 | D3SBA60 | DIODE BRIDGE | | * |
| D2911 | BYD33M-T3 | SI DIODE | | * |
| D2912 | BYD33D-T3 | SI DIODE | | * |
| D2914 | 1SR124-400A-T2 | SI DIODE | | * |

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| Symbol No. | Part No. | Part Name | Description | Local |
|---------------------|----------------|-------------------|--------------|-------|
| D I O D E | | | | |
| D2951 | BYW95C-20 | SI. DIODE | | * |
| D2952 | BYW95B-20 | SI. DIODE | | * |
| D2953-54 | FML-G12S | SI. DIODE | | * |
| D2956 | BYD33M-T3 | SI. DIODE | | * |
| D2957 | MTZJ9.1(C)-T2 | ZENER DIODE | | * |
| D2962-63 | 1SS133-T2 | SI. DIODE | | * |
| D2965 | 1SS133-T2 | SI. DIODE | | * |
| D2968 | MTZJ5.6(A)-T2 | ZENER DIODE | | * |
| D2981-84 | 1N4003-T2 | SI. DIODE | | * |
| D2985 | MTZJ8.2(B)-T2 | ZENER DIODE | | * |
| D2986-87 | 1SS133-T2 | SI. DIODE | | * |
| T R A N S I S T O R | | | | |
| Q2511 | BSN274 | F.E.T. | | * |
| Q2521 | 2SD2553-LB | SI. TRANSISTOR | H. OUT | * |
| Q2535 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q2536 | IRF620 | F.E.T. | | * |
| Q2537 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q2538 | IRF620 | F.E.T. | | * |
| Q2539 | DTC124ES-T | DIGI. TRANSISTOR | | * |
| Q2540 | IRF620 | F.E.T. | | * |
| Q2541 | 2SD1408(OY)-LB | SI. TRANSISTOR | | * |
| Q2551 | DTA144ES-T | DIGI. TRANSISTOR | | * |
| Q2552 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q2582 | 2SA949(Y)C1-T | SI. TRANSISTOR | | * |
| Q2583 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q2911 | MTA4N80E | F.E.T. | | * |
| Q2971 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q2979 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q2980 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q2981 | 2SC2655(Y)-T | SI. TRANSISTOR | | * |
| Q2982 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| I C | | | | |
| IC2421 | TDA8351/N5 | I.C. (MONO-ANA) | | * |
| IC2541 | UPC4558C | I.C. (MONO-ANA) | | * |
| IC2911 | MC44603P | I.C. (MONO-ANA) | | * |
| IC2951 | KIA7808PI | I.C. (MONO-ANA) | | * |
| IC2952 | KIA7805PI | I.C. (MONO-ANA) | | * |
| IC2953 | SE135N | I.C. (HYBRID) | | * |
| O T H E R S | | | | |
| △ FR2552 | QRH027K-R82M | F R | 0.82 Ω 2W K | * |
| △ FR2553 | QRH017J-180M | F R | 18 Ω 1W J | * |
| △ FR2554 | QR20054-4R7M | F R | 4.7 Ω 1/4W J | * |
| K2911 | CE42050-001Z | CORE | | * |
| K2913 | CE42050-001Z | CORE | | * |
| K2951 | CE41433-001Z | BEADS CORE | | * |
| K2952 | CE42050-001Z | CORE | | * |
| PC2536-37 | TLP621(B) | I.C. (PH.COUPLER) | | * |
| △ PC2912 | TLP721F(D4-GR) | PHOTO COUPLER | | * |
| △ RY2981 | CESK028-002 | RELAY | | * |
| △ TH2901 | CEKP002-003 | W.P.THERMISTOR | | * |
| VA2561 | ERZV10V112C1 | ZN R | | * |
| VA2562 | CH41005-H-7.5C | F.BUS WIRE | | * |

AV-32WX1EP

CRT SOCKET PW BOARD ASS'Y (SJD-3002A-U2)

| Symbol No. | Part No. | Part Name | Description | Local |
|---------------------------------|---------------|----------------|---------------|-------|
| V A R I A B L E R E S I S T O R | | | | |
| R3107 | QVPE805-302H | V R(G CUT OFF) | 3k Ω B | * |
| R3108 | QVPE805-302H | V R(R CUT OFF) | 3k Ω B | * |
| R3109 | QVPE805-302H | V R(B CUT OFF) | 3k Ω B | * |
| R E S I S T O R | | | | |
| R3116-21 | QRG029J-153A | OM R | 15k Ω 2W J | * |
| R3318 | QRD149J-100S | C R | 10 Ω 1/4W J | * |
| R3329 | QRG029J-391A | OM R | 390 Ω 2W J | * |
| C A P A C I T O R | | | | |
| C3104 | QETN1CM-107Z | E CAP. | 100 μF 16V M | * |
| C3105 | QETN1CM-476Z | E CAP. | 47 μF 16V M | * |
| C3106 | QCZ0120-104MZ | C CAP. | 0.1 μF 25V Z | * |
| C3107 | QETN1CM-106Z | E CAP. | 10 μF 16V M | * |
| C3113 | QCZ0121-102A | E CAP. | 33 μF 16V M | * |
| C3114 | QETM2EM-336 | E CAP. | 10 μF 50V M | * |
| C3301 | QETN1HM-106Z | E CAP. | 0.01 μF 50V J | * |
| C3304 | QFLC1HJ-103MZ | M CAP. | | * |
| C3305 | QETN1HM-335Z | E CAP. | 3.3 μF 50V M | * |
| C3306 | QETN1CM-107Z | E CAP. | 100 μF 16V M | * |
| C3308 | QETN2CM-106Z | E CAP. | 10 μF 160V M | * |
| C3310 | QETN2CM-106Z | E CAP. | 100 μF 16V M | * |
| C3314 | QETN1CM-107Z | E CAP. | 100 μF 10V M | * |
| C3316 | QETN1AM-107Z | E CAP. | 330 μF 16V M | * |
| C3317 | QETN1CM-337Z | E CAP. | | * |
| C O I L | | | | |
| L3101-03 | CELP026-181Z | PEAKING COIL | 180 μH | * |
| L3302 | CELP026-150Z | PEAKING COIL | 15 μH | * |
| D I O D E | | | | |
| D3151 | 1SS133-T2 | SI. DIODE | | * |
| D3156-58 | 1SS133-T2 | SI. DIODE | | * |
| D3301 | 1SS133-T2 | SI. DIODE | | * |
| D3302-03 | RH1S-T3 | SI. DIODE | | * |
| T R A N S I S T O R | | | | |
| Q3101-03 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q3104-06 | 2SC4544-C1 | SI. TRANSISTOR | | * |
| Q3153 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q3154 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q3301 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q3302 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q3303 | 2SC1906-T | SI. TRANSISTOR | | * |
| Q3304-05 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q3306 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q3307 | 2SA1837 | SI. TRANSISTOR | | * |
| Q3308 | 2SC4793 | SI. TRANSISTOR | | * |
| O T H E R S | | | | |
| △ FR3330 | QRH017J-561M | F R | 560 Ω 1W J | * |
| K3301-04 | CE41492-001Z | CHOKE COIL | | * |
| △ SK3001 | CE42670-001 | CRT SOCKET | | * |

AV-32WX1EP

AV-32WX1EP

FRONT CONTROL PW BOARD ASS'Y (SJD-8002A-U2)

| △ Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|-----------------|--------------|-------|
| CAPACITOR | | | | |
| C8003 | QETN1HM-106Z | E CAP. | 10 μF 50V M | * |
| C8004 | QCZ0120-104MZ | C CAP. | 0.1 μF 25V Z | * |
| C8005 | QETN1CM-476Z | E CAP. | 47 μF 16V M | * |
| △ C8901 | QFZ9040-474N | MF CAP. | 0.47 μF | * |
| COIL | | | | |
| L8001 | CE41832-001 | LEAD CORE | | * |
| L8002-03 | CEL017-6R6Y | PEAKING COIL | 5.6 μH | * |
| L8010-11 | CEL017-270Y | PEAKING COIL | 27 μH | * |
| L8012 | CE41832-001 | LEAD CORE | | * |
| DIODE | | | | |
| D8007 | P1201 | C.D.S. | | * |
| D8008 | 1SS133-T2 | SI.DIODE | | * |
| D8009 | SLR-342MG-T16 | L.E.D.(GRN) | | * |
| D8010 | SPR-39MVWF | L.E.D. | | * |
| D8011 | 1SS133-T2 | SI.DIODE | | * |
| D8012 | SLR-342DU-T16 | L.E.D.(ORG) | | * |
| D8013 | SLR-342YY-T16 | L.E.D.(YLW) | | * |
| D8014 | MTZJ6.8(A)-T2 | ZENER DIODE | | * |
| TRANSISTOR | | | | |
| Q8001 | 2PC1815(YG)-T | SI.TRANSISTOR | | * |
| Q8002 | DTC144ES-T | DIGI.TRANSISTOR | | * |
| Q8003-04 | DTA144ES-T | DIGI.TRANSISTOR | | * |
| IC | | | | |
| IC8001 | TFMS5380ESN | IFR DETECT UNIT | | * |
| OTHERS | | | | |
| | CM36548-001-E | LED HOLDER | | * |
| | CM35921-004-H | CDS HOLDER | | * |
| | CHC108N-25T-A | FFC CONNECTOR | | * |
| △ F8901 | QMF51D2-3R15J1 | FUSE | 3.15A | * |
| J8001 | QMS3004-C01 | HEADPHONE JACK | | * |
| J8002 | CEMN087-001 | PIN JACK | | * |
| △ LF8901 | CELFO12-001J7 | LINE FILTER | | * |
| S8001 | QSP1A11-C18Z | PUSH SWITCH | INSTALL | * |
| S8002 | QSP1A11-C18Z | PUSH SWITCH | CH▽(DOWN) | * |
| S8003 | QSP1A11-C18Z | PUSH SWITCH | CH△(UP) | * |
| S8004 | QSP1A11-C18Z | PUSH SWITCH | VOL(-) | * |
| S8005 | QSP1A11-C18Z | PUSH SWITCH | VOL(+) | * |
| S8471 | QSS4C23-C03 | SLIDE SWITCH | | * |
| △ S8901 | QSP4K21-C01 | PUSH SWITCH | MAIN POWER | * |

DOLBY PW BOARD ASS'Y (SJB0D001A(U))

| △ Symbol No. | Part No. | Part Name | Description | Local |
|------------------|---------------|-----------|----------------|-------|
| RESISTOR | | | | |
| R0109 | QRD149J-4R7S | C R | 4.7 Ω 1/4W J | J |
| R0120-21 | QRD149J-4R7S | C R | 4.7 Ω 1/4W J | J |
| R0901 | QRG029J-470A | OM R | 47 Ω 2W J | J |
| R0904 | QRD149J-121S | C R | 120 Ω 1/4W J | J |
| CAPACITOR | | | | |
| C0101 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0102 | NCT03CH-680AY | CHIP CAP. | 68 pF 1600V H | H |
| C0103 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0104 | NCB21HK-473AY | CHIP CAP. | 0.047 μF 50V K | K |
| C0105 | NCB21HK-223AY | CHIP CAP. | 0.022 μF 50V K | K |
| C0106 | NCB21HK-102AY | CHIP CAP. | 1000 pF 50V K | K |
| △ C0107 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0108 | NCB21HK-473AY | CHIP CAP. | 0.047 μF 50V K | K |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|------------------|---------------|-----------------|----------------|-------|
| CAPACITOR | | | | |
| C0109 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0110 | NCT03CH-680AY | CHIP CAP. | 68 pF 1600V H | H |
| C0111 | NCB21HK-473AY | CHIP CAP. | 0.047 μF 50V K | K |
| C0112-14 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0115 | NCB21HK-473AY | CHIP CAP. | 0.047 μF 50V K | K |
| C0116 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μF | |
| C0117 | NCB21HK-103AY | CHIP CAP. | 0.01 μF 50V K | K |
| C0118 | QETN1AM-227Z | E CAP. | 220 μF 10V M | M |
| C0119 | NCB21EK-563AY | CHIP CAP. | 0.056 μF 25V K | K |
| C0120 | QETN1AM-227Z | E CAP. | 220 μF 10V M | M |
| C0122-23 | NCT03CH-100AY | CHIP CAP. | 10 pF 1600V H | H |
| C0124 | NCB21HK-103AY | CHIP CAP. | 0.01 μF 50V K | K |
| C0125 | QETN1AM-227Z | E CAP. | 220 μF 10V M | M |
| C0126 | NCB21HK-103AY | CHIP CAP. | 0.01 μF 50V K | K |
| C0127 | QETN1AM-227Z | E CAP. | 220 μF 10V M | M |
| C0128 | NCB21HK-103AY | CHIP CAP. | 0.01 μF 50V K | K |
| C0130 | NCF21CZ-105AY | CER.CAPACITOR-M | 1 μF | |
| C0131-32 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0133-34 | QFLC1HK-102MZ | M CAP. | 1000 pF 50V K | K |
| C0135 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0136 | NCF21CZ-105AY | CER.CAPACITOR-M | 1 μF | |
| C0137 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0138-39 | QFLC1HK-102MZ | M CAP. | 1000 pF 50V K | K |
| C0140-42 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0151 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0201-02 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0203-04 | NCT03CH-470AY | CHIP CAP. | 47 pF 1600V H | H |
| C0205 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0206 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0251-52 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0253-54 | NCT03CH-470AY | CHIP CAP. | 47 pF 1600V H | H |
| C0255 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0256 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0304-05 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0401 | QETN1CM-226Z | E CAP. | 22 μF 16V M | M |
| C0402 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0403-04 | NCB21HK-272AY | CHIP CAP. | 2700 pF 50V K | K |
| C0405-06 | QETN1HM-225Z | E CAP. | 2.2 μF 50V M | M |
| C0407-10 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μF | |
| C0412 | QETN1CM-107Z | E CAP. | 100 μF 16V M | M |
| C0431 | QETN1CM-226Z | E CAP. | 22 μF 16V M | M |
| C0433-34 | NCB21HK-272AY | CHIP CAP. | 2700 pF 50V K | K |
| C0435 | QETN1HM-225Z | E CAP. | 2.2 μF 50V M | M |
| C0436-39 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μF | |
| C0453 | QETN1HM-225Z | E CAP. | 2.2 μF 50V M | M |
| C0501-02 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0503-04 | NCT03CH-100AY | CHIP CAP. | 10 pF 1600V H | H |
| C0505 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0507-08 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0531 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0532 | NCT03CH-100AY | CHIP CAP. | 10 pF 1600V H | H |
| C0536 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0551 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0553 | NCT03CH-100AY | CHIP CAP. | 10 pF 1600V H | H |
| C0555 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0556 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0557-58 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0601-04 | QETN1HM-106Z | E CAP. | 10 μF 50V M | M |
| C0605 | QETN1CM-107Z | E CAP. | 100 μF 16V M | M |
| C0606 | QETN1CM-476Z | E CAP. | 47 μF 16V M | M |
| C0607 | QETN1CM-107Z | E CAP. | 100 μF 16V M | M |
| C0701-05 | NCB21HK-222AY | CHIP CAP. | 2200 pF 50V K | K |

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AV-32WX1EP

| Symbol No. | Part No. | Part Name | Description | Local |
|------------|----------------|------------------|-------------------|-------|
| CAPACITOR | | | | |
| C0901-04 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | |
| C0905-06 | NCF21EZ-104AY | CER.CAPACITOR-M | 0.1 μ F | |
| COIL | | | | |
| L0001-02 | CE40344-4R7YL | INDUCTOR | | |
| L0701-05 | CELP026-100Z | PEAKING COIL | 10 μ H | |
| L0706 | CE41832-001 | LEAD CORE | | |
| DIODE | | | | |
| D0104 | MA141WK-X | SI.DIODE | | |
| D0201 | MA3062-X | ZENER DIODE | | |
| D0501-02 | MA3150(M)-X | ZENER DIODE | | |
| D0503 | MA3056-X | ZENER DIODE | | |
| D0532 | MA3150(M)-X | ZENER DIODE | | |
| D0552 | MA3150(M)-X | ZENER DIODE | | |
| TRANSISTOR | | | | |
| Q0201 | DTC144EK-X | DIGI. TRANSISTOR | | |
| Q0202-03 | 2SA1037K(QR)-X | SI. TRANSISTOR | | |
| Q0301-02 | DTC144EK-X | DIGI. TRANSISTOR | | |
| Q0501 | 2SA1162(YG)-X | SI. TRANSISTOR | | |
| Q0502-03 | DTC323TK-X | DIGI. TRANSISTOR | | |
| Q0531 | 2SA1162(YG)-X | SI. TRANSISTOR | | |
| Q0532 | DTC323TK-X | DIGI. TRANSISTOR | | |
| Q0551 | 2SA1162(YG)-X | SI. TRANSISTOR | | |
| Q0552-53 | DTC323TK-X | DIGI. TRANSISTOR | | |
| Q0601 | 2SK105(E)-T | F.E.T. | | |
| Q0602 | 2SC2665(Y)-T | SI. TRANSISTOR | | |
| I.C. | | | | |
| IC0101 | SAA7366T-X | I.C.(MONO-ANA) | | |
| IC0102 | M37471M8-349SP | I.C.(MICRO-COMP) | | |
| IC0103 | MN1382-Q-X | I.C.(MONO-ANA) | | |
| IC0104 | TC9332F-010 | I.C.(DIGI-MOS) | | |
| IC0105 | TC7W74F-X | I.C.(ECL-LOGIC) | | |
| IC0106 | TMS57002DPHA | I.C.(MICRO-PROC) | | |
| IC0108-09 | TDA1386T-X | I.C.(MONO-ANA) | | |
| IC0111 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0201 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0251 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0301-02 | TC4052BF-W | I.C.(DIGI-MOS) | | |
| IC0401 | TDA7315D | I.C.(DIGI-OTHER) | | |
| IC0411 | AN78L09-Y | I.C.(MONO-ANA) | | |
| IC0431 | TDA7315D | I.C.(DIGI-OTHER) | | |
| IC0501 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0551 | BA4558F-W | I.C.(MONO-ANA) | | |
| IC0901-02 | AN78L05-Y | I.C.(MONO-ANA) | | |
| OTHERS | | | | |
| CP0601 | ICP-N10-Y | I.C.PROTECT | | |
| J0001 | CEMN036-004 | PIN JACK | | |
| J0002 | CEMN061-001 | PIN JACK | | |
| X0101 | CST8.00MT | CER. RESONATOR | | |
| X0102 | CE42533-001 | CRYSTAL | | |

AV SEL. & MSP PW BOARD ASS'Y (SJD0S001A-U2)

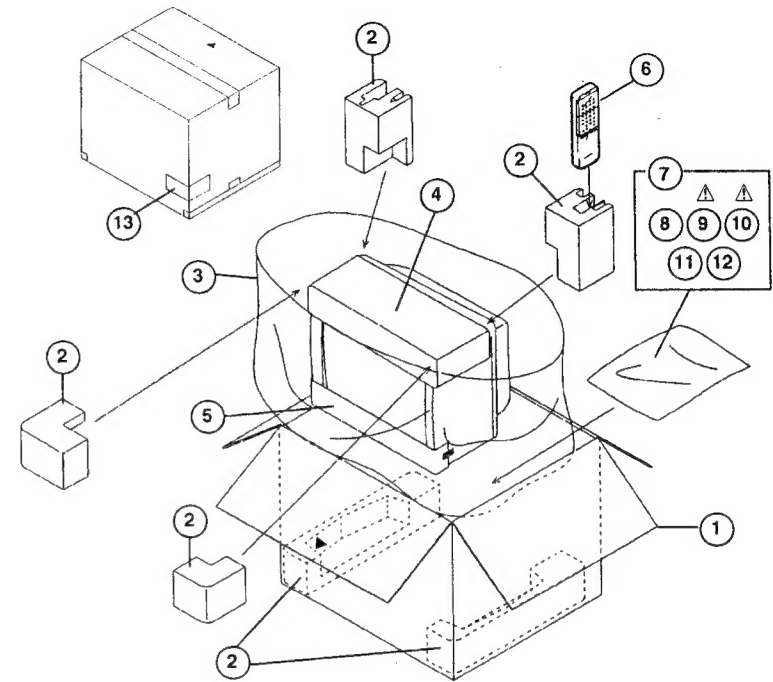
| Symbol No. | Part No. | Part Name | Description | Local |
|------------|---------------|--------------|--------------------|-------|
| RESISTOR | | | | |
| R0104 | QRG019J-101S | OM R | 100 Ω 1W J | * |
| R0206 | QRG019J-101S | OM R | 100 Ω 1W J | * |
| R0612-13 | QRB049J-473 | NETW.R | 4.7k Ω | * |
| CAPACITOR | | | | |
| C0101 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0102 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0103 | QETN1CM-227Z | E CAP. | 220 μ F 16V M | * |
| C0104 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0105-08 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0115-16 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0117-18 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C0201 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0202 | QFLC1HK-103MZ | M CAP. | 0.01 μ F 50V K | * |
| C0203-04 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0206 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0207-08 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0215-16 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0217-18 | QETN1HM-106Z | E CAP. | 10 μ F 50V M | * |
| C0301 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0304-05 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0401 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0402 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0403 | QEN61CM-106Z | BP E CAP. | 10 μ F 16V M | * |
| C0404 | QETN1CM-477Z | E CAP. | 470 μ F 16V M | * |
| C0405 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0521 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0601-02 | QCT25CH-2R0Z | C CAP. | 2.0 μ F 50V J | * |
| C0605-06 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0607-08 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0610 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0613 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0614-15 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0616 | QC20120-104MZ | C CAP. | 0.1 μ F 25V Z | * |
| C0617-18 | QETN1CM-106Z | E CAP. | 10 μ F 16V M | * |
| C0635-36 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0637 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0638-39 | QEN61HM-105Z | BP E CAP. | 1 μ F 50V M | * |
| C0641 | QETN1CM-476Z | E CAP. | 47 μ F 16V M | * |
| C0643 | QETN1CM-107Z | E CAP. | 100 μ F 16V M | * |
| C0645-48 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| C0650 | QETN1HM-105Z | E CAP. | 1 μ F 50V M | * |
| COIL | | | | |
| L0101-04 | CELP017-5R6Y | PEAKING COIL | 5.6 μ H | * |
| L0105 | CE41832-001 | LEAD CORE | | * |
| L0201-04 | CELP017-5R6Y | PEAKING COIL | 5.6 μ H | * |
| L0205 | CE41832-001 | LEAD CORE | | * |
| L0504 | CELP027-180Z | PEAKING COIL | 18 μ H | * |
| L0505 | CELP027-220Z | PEAKING COIL | 22 μ H | * |
| L0606 | CELC005-2R5J7 | CHOKE COIL | | * |
| L0607 | CELP026-100Z | PEAKING COIL | 10 μ H | * |
| L0608 | CELC005-2R5J7 | CHOKE COIL | | * |
| DIODE | | | | |
| D0101 | MTZJ5.1(A)-T2 | ZENER DIODE | | * |
| D0201 | MTZJ4.7(A)-T2 | ZENER DIODE | | * |
| D0301 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0304-05 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0401-02 | MTZJ13(B)-T2 | ZENER DIODE | | * |
| D0403 | MTZJ10(A)-T2 | ZENER DIODE | | * |

AV-32WX1EP

AV-32WX1EP

| Symbol No. | Part No. | Part Name | Description | Local |
|-------------------|----------------|--------------------|--------------------|-------|
| TRANSISTOR | | | | |
| Q0101-02 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0103-04 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| TRANSISTOR | | | | |
| Q0105 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0201 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0202 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0203-04 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| Q0401-03 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0503-04 | 2PC1815(YG)-T | SI. TRANSISTOR | | * |
| Q0601 | DTC144ES-T | DIGI. TRANSISTOR | | * |
| Q0602 | 2PA1015(YG)-T | SI. TRANSISTOR | | * |
| Q0603 | DTC323TS-T | DIGI. TRANSISTOR | | * |
| I C | | | | |
| IC0401 | TEA6416 | I. C. (MONO-ANA) | | * |
| IC0601 | MSP34108-PP-F7 | I. C. (DIGI-OTHER) | | * |
| IC0602 | BA4558 | I. C. (MONO-ANA) | | * |
| IC0803 | TC4052BP | I. C. (DIGI-MOS) | | * |
| OTHERS | | | | |
| J0001-02 | CE40529-009J1 | 21 PIN SOCKET | | * |
| R0403 | QR20054-470M | F R | 47 Ω 1/4W J | * |
| X0601 | CE42546-001 | CRYSTAL | | * |

PACKING



PACKING PARTS LIST

| Ref.No. | Part No. | Part Name | Description | Local |
|---------|----------------|---------------|-----------------------------|-------|
| 1 | AEM1002-043-E | PACKING CASE | (EURO BOX) | * |
| 2 | CP11549-008-E | CUSHION ASSY | 6pcs in 1set | * |
| 3 | AEM1004-007-E | POLY. BAG | | * |
| 4 | AEM3022-003-E | CUSHION SHEET | | * |
| 5 | CP40193-010-E | CUSHION SHEET | | * |
| 6 | RM-C782-1E | REMOCON UNIT | | * |
| 7 | AEM3021-001-E | POLY BAG | | * |
| 8 | 2832WX1EP-HSAE | S. DIAGRAM | | * |
| 9 | CQ40224-001-E | INST BOOK | For GBR/GER/FRA/NED/ITA/ESP | * |
| 10 | CQ40225-001-E | INST BOOK | For FIN/NOR/DEN/SWE/POR | * |
| 11 | BT-20066A-E | ADDRESS CARD | (1295) | * |
| 12 | CM22966-005-E | DEC. SHEET | | * |
| 13 | AEM1038-025-E | EURO LABEL | | * |